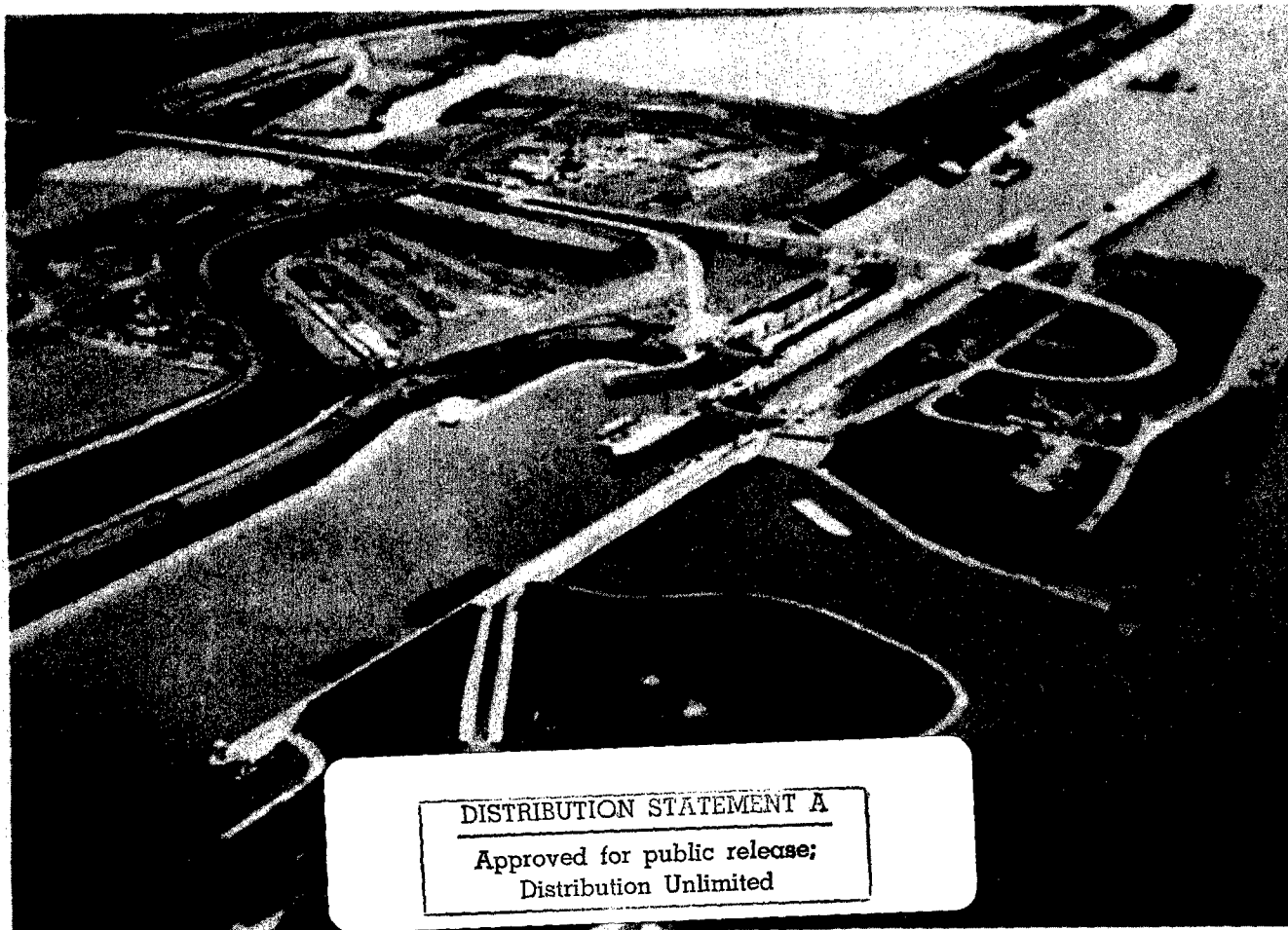


# ***GALLIPOLIS LOCKS AND DAM***

**OHIO RIVER BASIN**

**MASON COUNTY, WV**



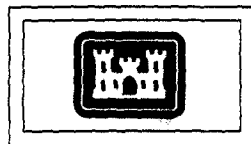
**FOUNDATION REPORT**

**VOLUME 2 FOUNDATION DRAWINGS**

**CONSTRUCTION OF TWO PARALLEL LOCKS AND CANAL**

**CONTRACT DACW-69-88-C-0001**

**23 JANUARY 1993**



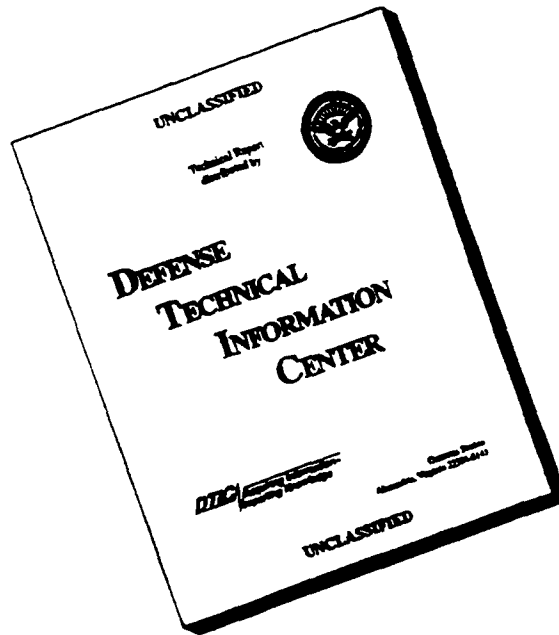
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**U.S. ARMY CORPS OF ENGINEERS**

**HUNTINGTON DISTRICT**

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# Gallipolis Lock Replacement

Ohio River Basin

Mason County W.V.

Foundation Report  
Volume 2 Foundation Drawings

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# **Gallipolis Locks**

## **Replacement**

Ohio River Basin

Mason County West Virginia

## **Foundation Report**

Volume II

Foundation Drawing

Construction of Two Parallel Locks and Canal

Contract No. DACW69-88-C-0001

Huntington District

U.S. Army Corps of Engineers

Huntington West Virginia

June 1994



## Abbreviations

Ang.	Angular	H.	Hardness	Rot.	Rotten (ed)
Appro.	Approximate(ly)	Hi.	High(iy)(er)	Rou.	Round(ed)
Bd.	Bed(ded)(ing)	Hor.	Horizontal(iy)	Rt.	Root(s)(let)
Bk.	Black	Inc.	Inclusions	S.	Soft
Bkn.	Broken	Intbd.	Interbedded	Sa.	Sandy
Bou.	Boulder(s)	Irr.	Irregular	Scat.	Scattered
Bre.	Breccia(ted)			Se.	Seams
Br.	Brown	Jt.	Joint(ed)	Sev.	Severely
				Sevr.	Several
C.	Coarse	L.	Little	Sh.	Shaly
Cal.	Calcareous	Las.	Laminat(ions)(ed)	Sil.	Siliceous
Carb.	Carbonaceous	Lay.	Layer(s)	Sl.	Silty
Cbl.	Cobble(y)	Len.	Lens(es)	Sli.	Slight(ly)
Cl.	Clayey	Lg.	Large	Slk.	Slickensided
Comp.	Compaction	Lt.	Light	Sm.	Small
Conc.	Concretion			So.	Some
Cong	Conglomeratic	M.	Moderately	Sol.	Solution
Cem.	Cement(ed)	Ma.	Many	Sta.	Stain(ed)
		Mas.	Massive(ly)	Stf.	Stiff
Dia.	Diameter	Mat.	Material	Stks.	Streak(s)
Disc	Discontinuous	Mic.	Micaceous	Sty.	Stylolite
Dk.	Dark	Mos.	Mostly		
Dn.	Dense	Mot.	Mottled	T.	Thin
Dmp.	Damp	Mot.	Moist	Thr.	Throughout
		Mtx.	Matrix	Tk.	Thick
				Tr.	Trace
F.	Fine	Nod.	Nodule(s)		
Fer.	Ferruginous	Num.	Numerous	Ve.	Very
Fis.	Fissile			Ver.	Vertical
Fil.	Filled(ing)	O.	Open	Vu.	Vuggy
Fos.	Fossil(iferous)	Occ.	Occasional(ly)		
Frac.	Fracture(d)	Org.	Organic	W.	Water
Frag.	Fragment(s)(al)			/W.	With
Fri.	Friable	Part.	Particle(s)	W.C.	Water Content
F.W.	Free Water	Pl.	Plastic	Wd.	Weathered
		Peb.	Pebble(s)		
G.	Grain(ed)	Pkt.	Pocket(s)	Xbd.	Cross Bedded
Gn.	Green	Pn.	Plane(s)		
Gr.	Gray	Pt.	Part	Y.	Yellow
Gra.	Gravelly	Pyr.	Pyrite(ic)		
G.W.	Ground Water			Zo.	Zone
		R.	Red		
		Ro.	Rock(s)		

## **Rock**

### Symbols

<u>Symbol</u>	<u>Name</u>	<u>Abbreviation</u>
	Sandstone	SS.
	Conglomerate	CONG.
	Shale	SLS.
	Claystone	CLS.
	Limestone	LS.
	Coal	C.
	Indurated Clay	ICL.
	Dolomite	DO.

### Hardness

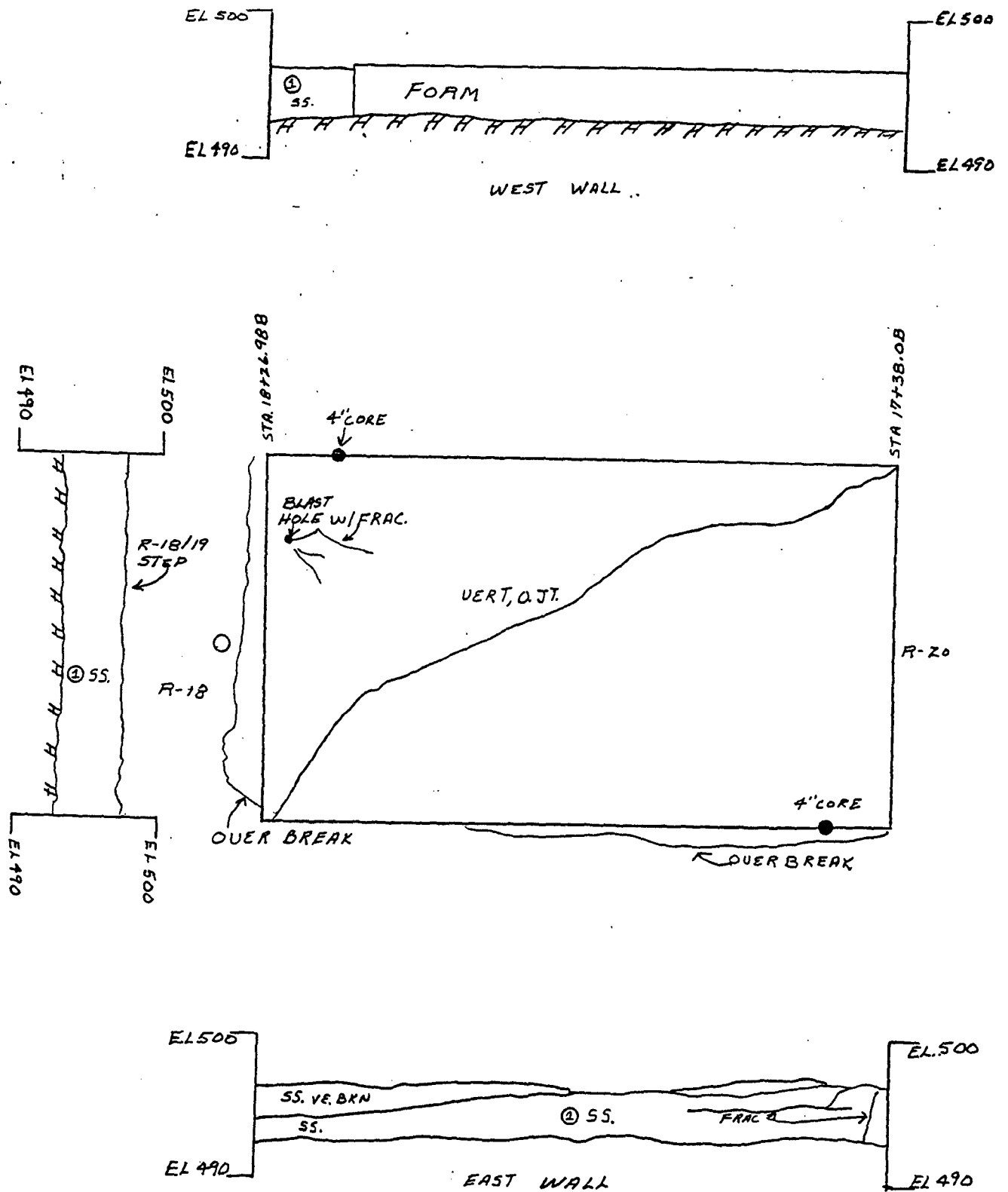
Very soft or plastic - Can be indented easily  
with thumb

Soft - Can be scratched with  
fingernail

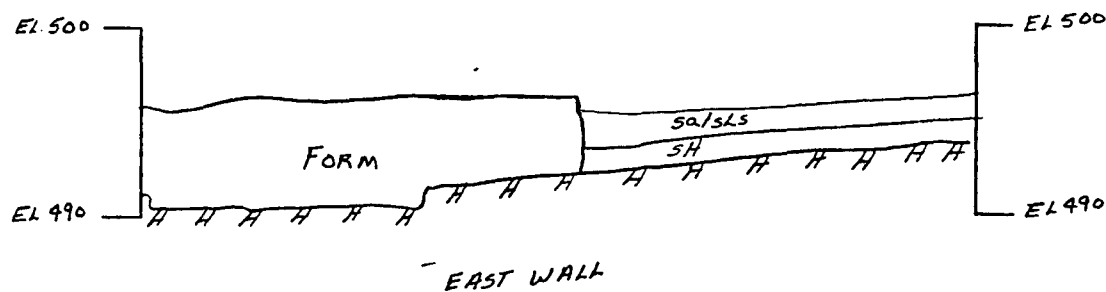
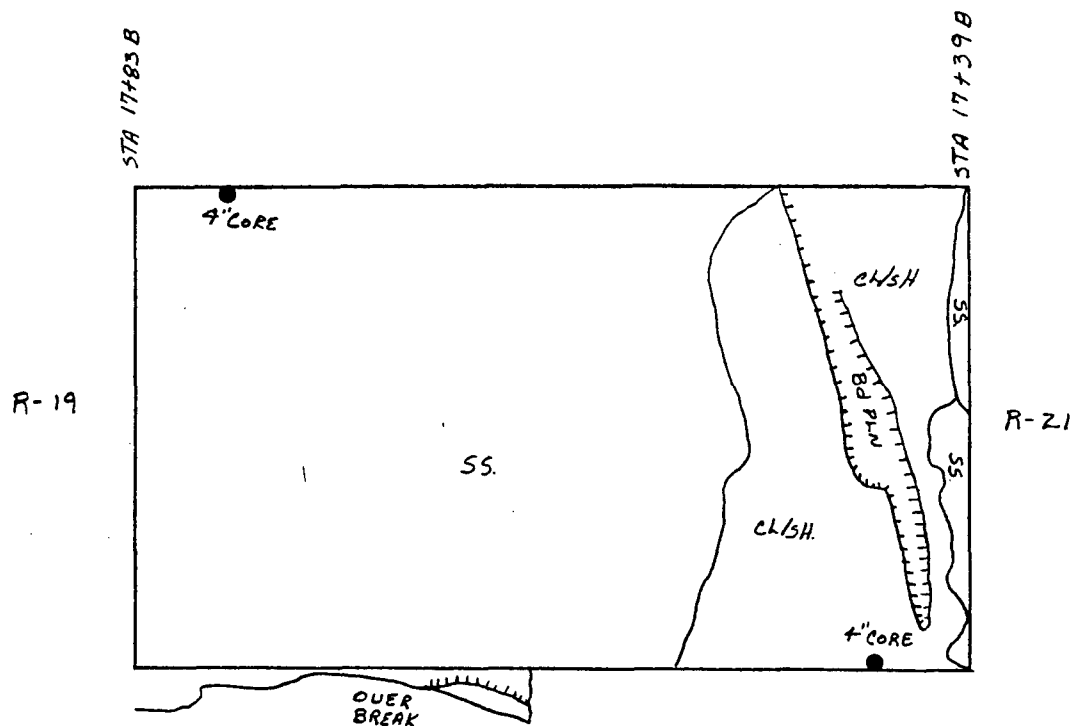
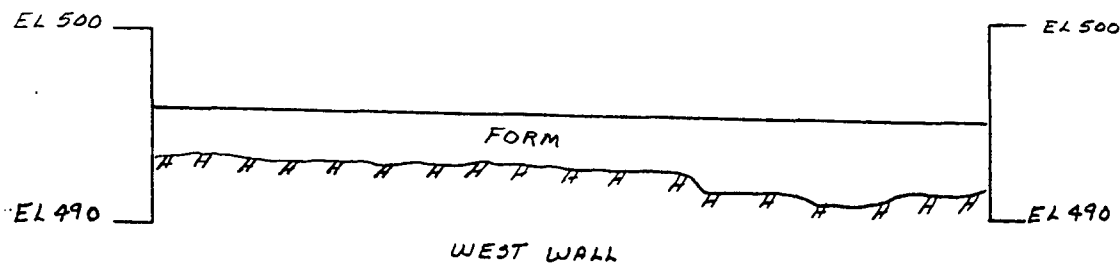
Moderately Hard - Can be scratched easily  
with a knife; cannot be  
scratched with finger  
-nail

Hard - Difficult to scratch  
with a knife

Very Hard - Cannot be scratched  
with a knife

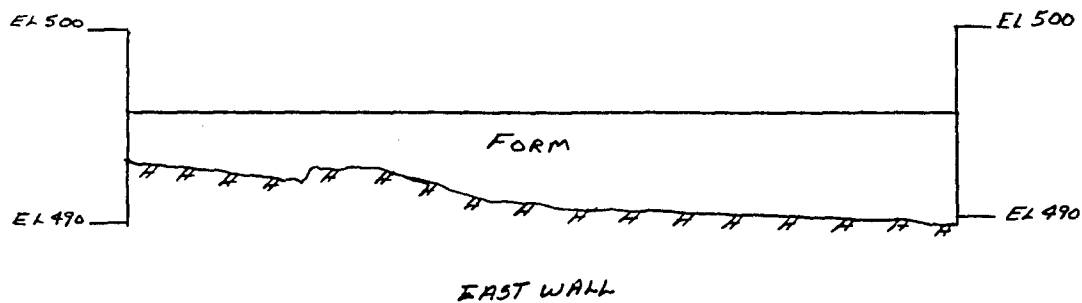
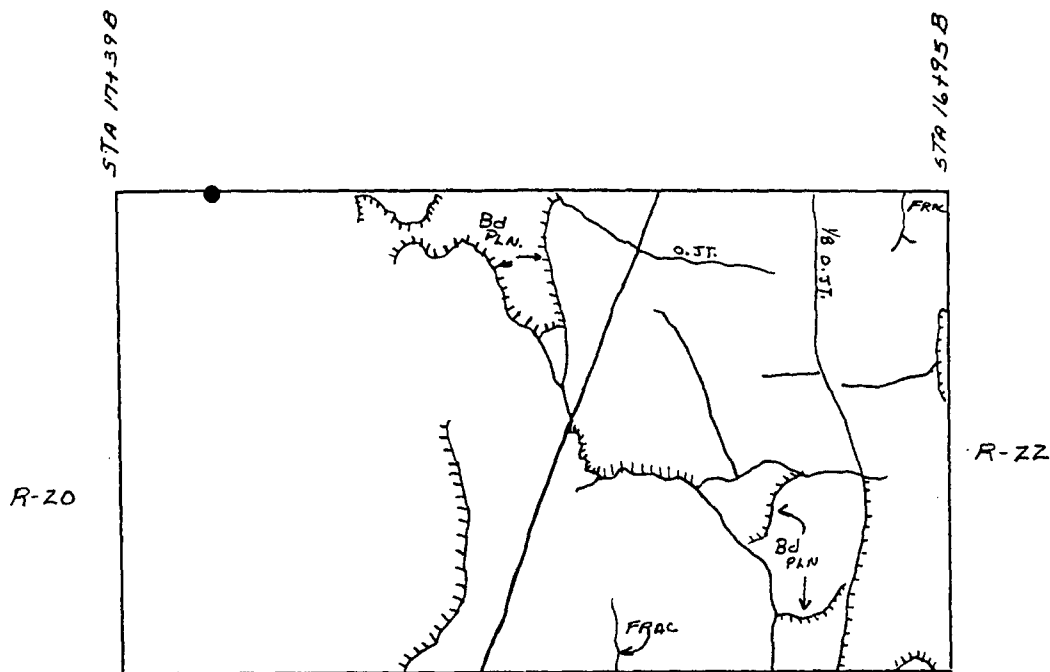
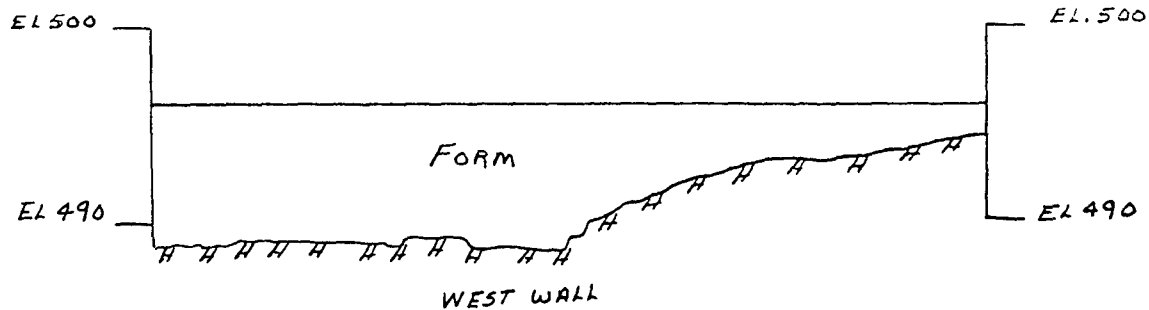


U.S. Army Corps of Engineers  
 Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation Drawing  
 River Wall Monolith 19



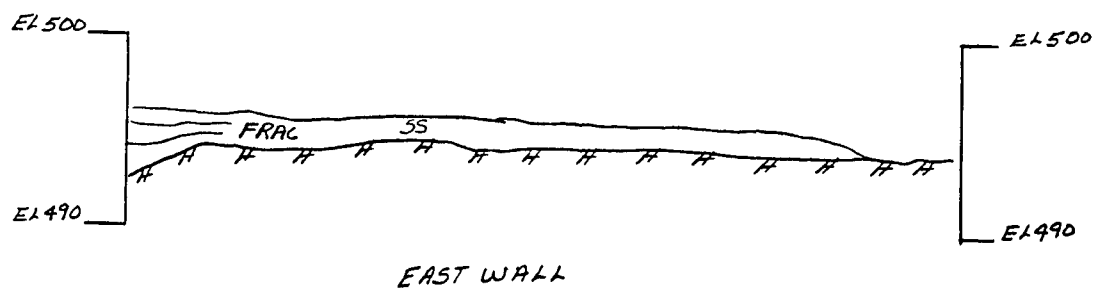
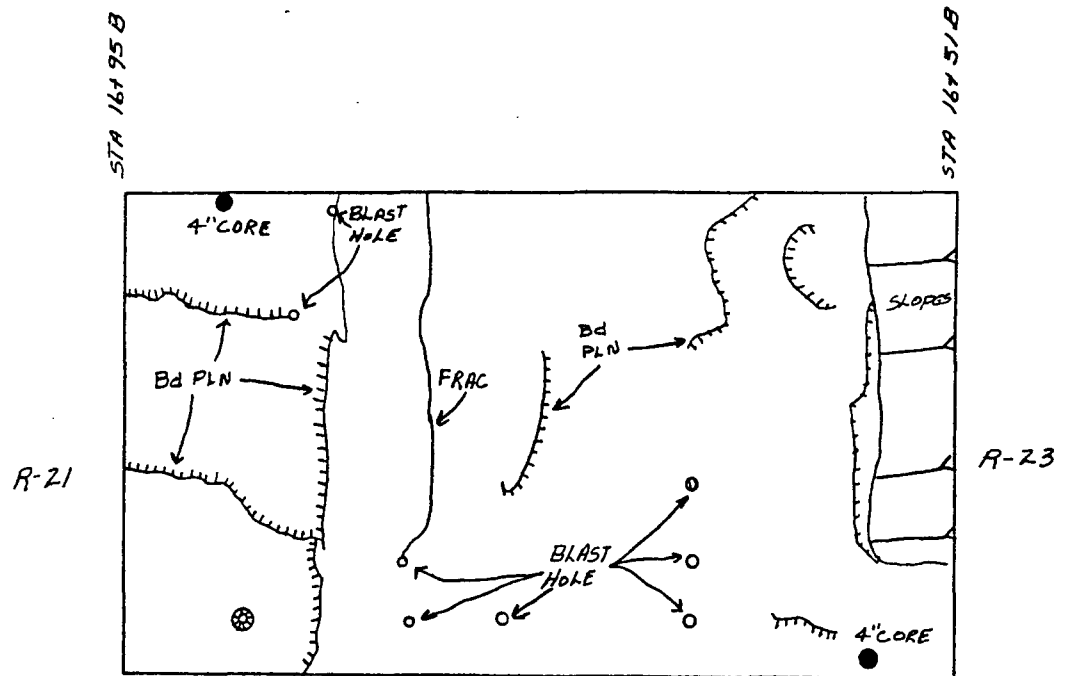
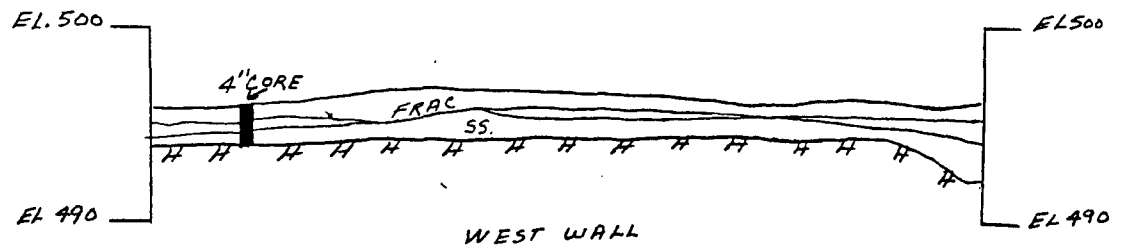
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Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 20



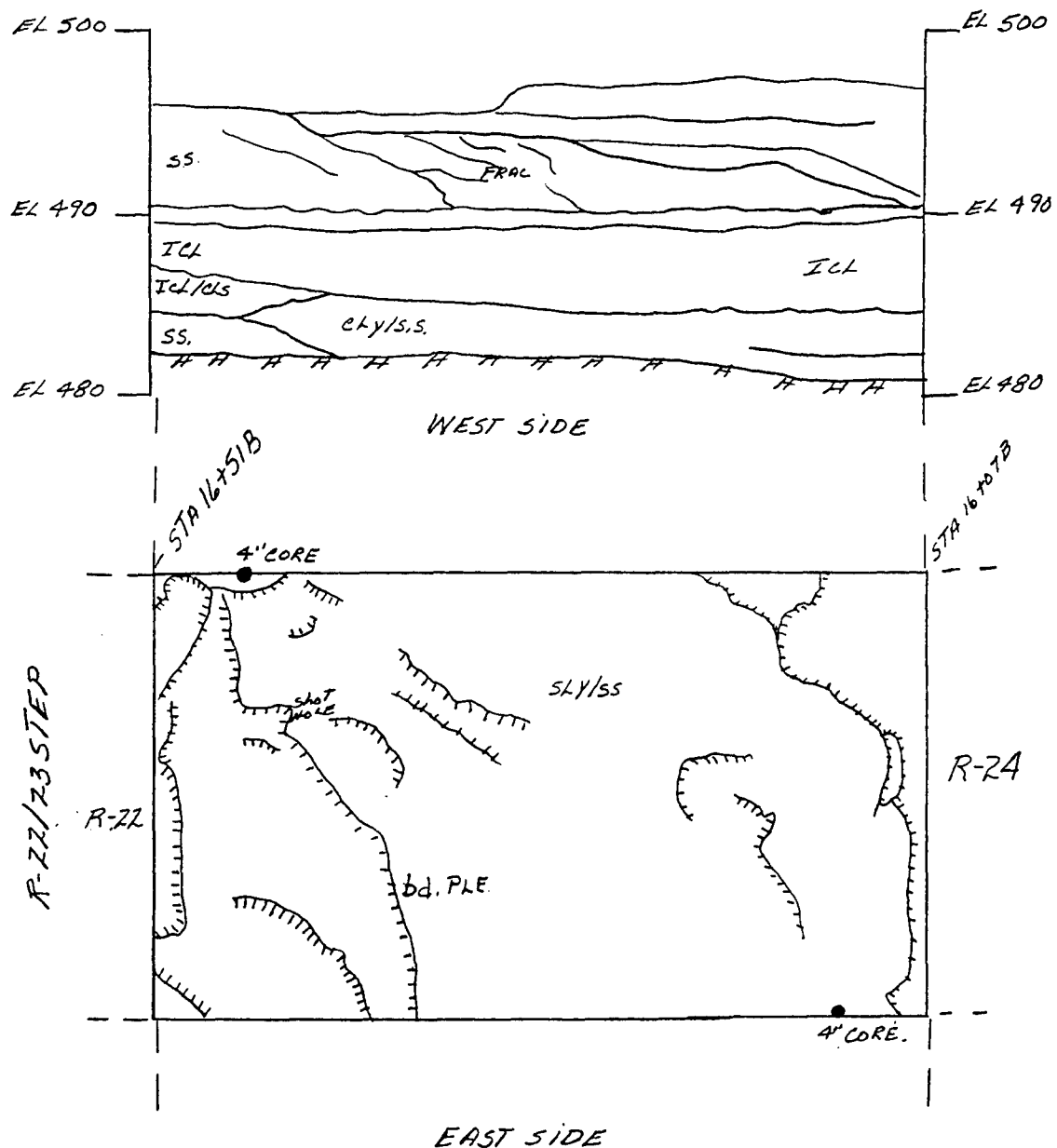
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Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 21



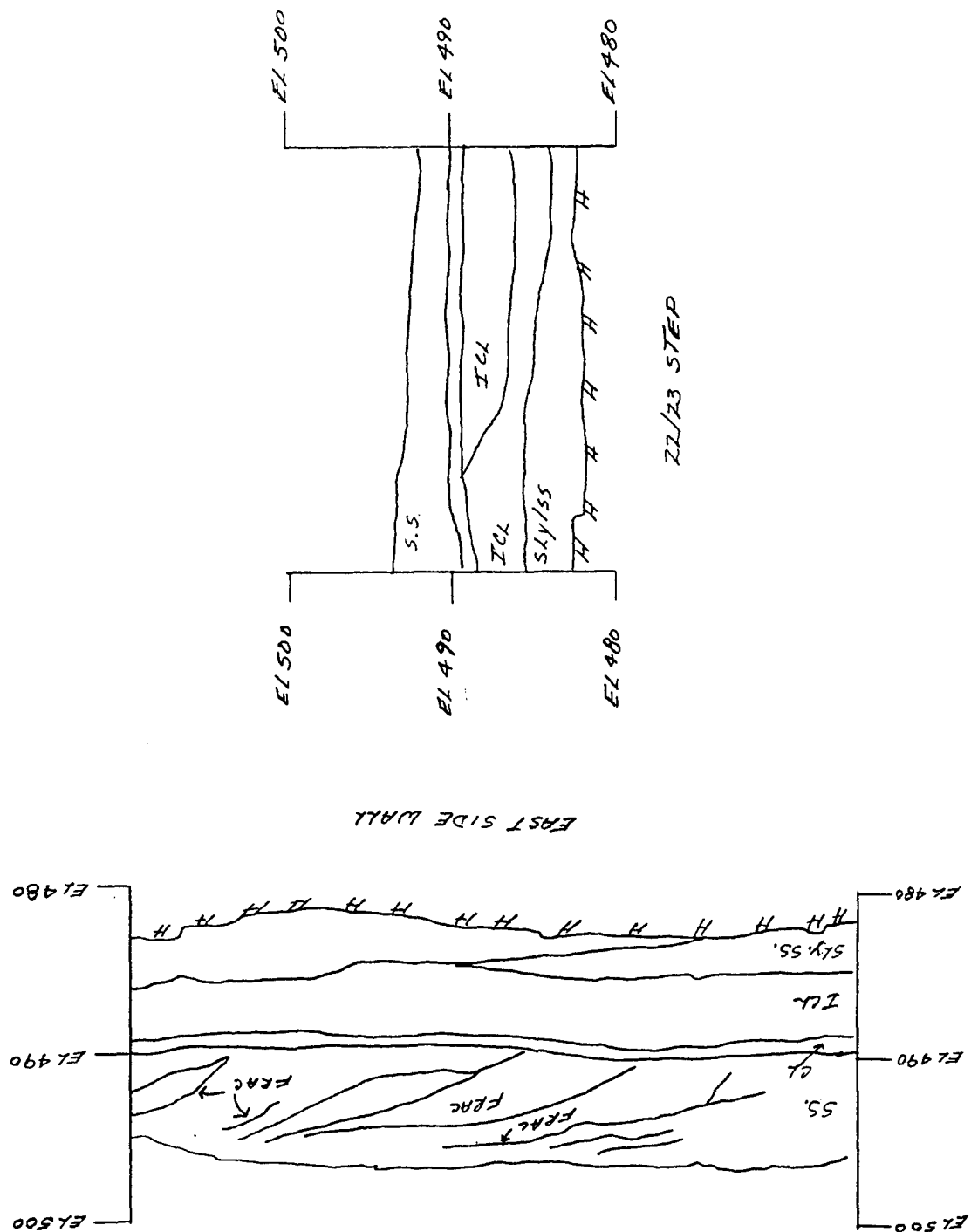
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Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
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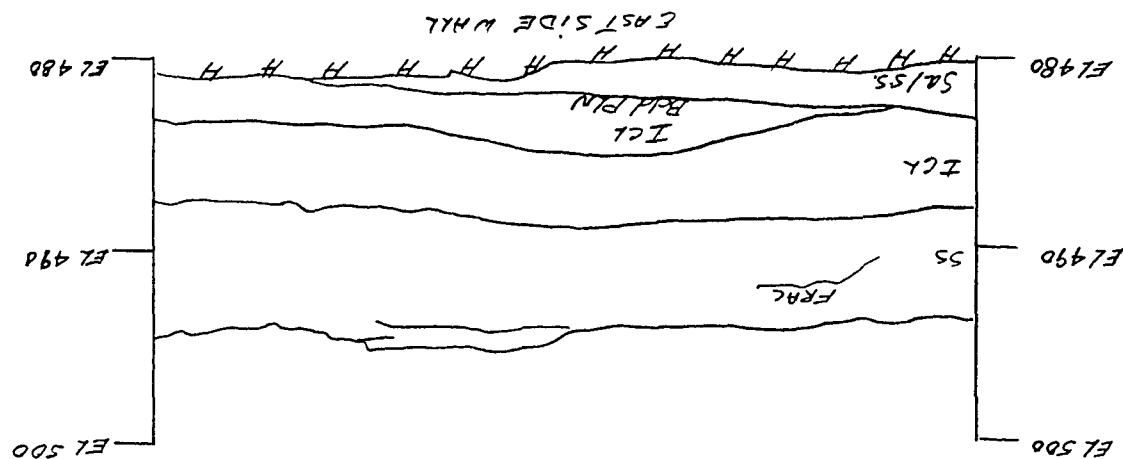
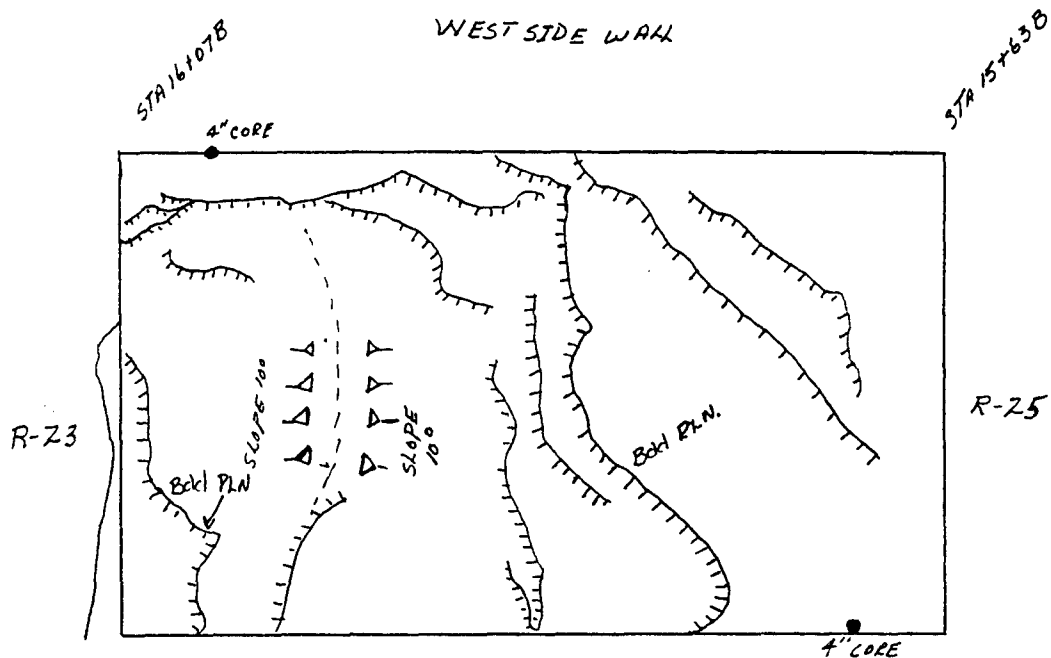
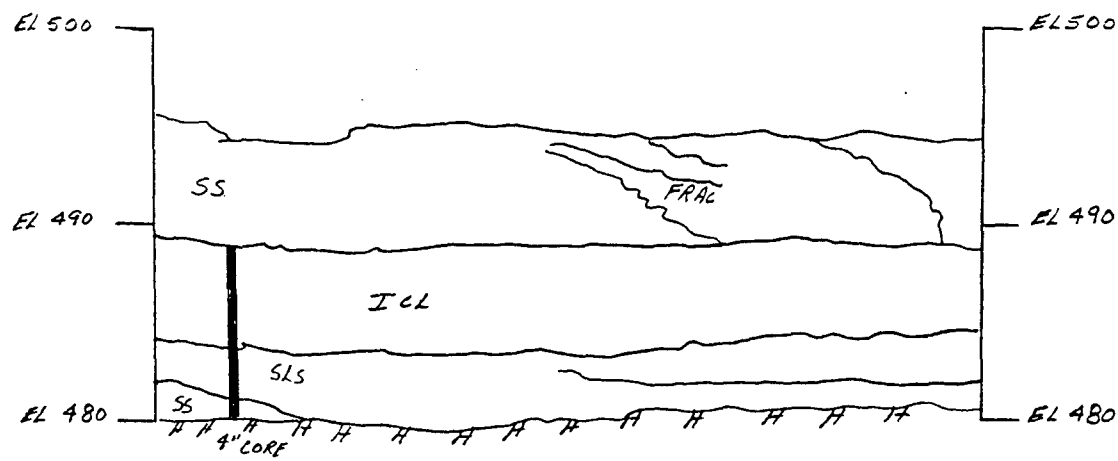
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 23



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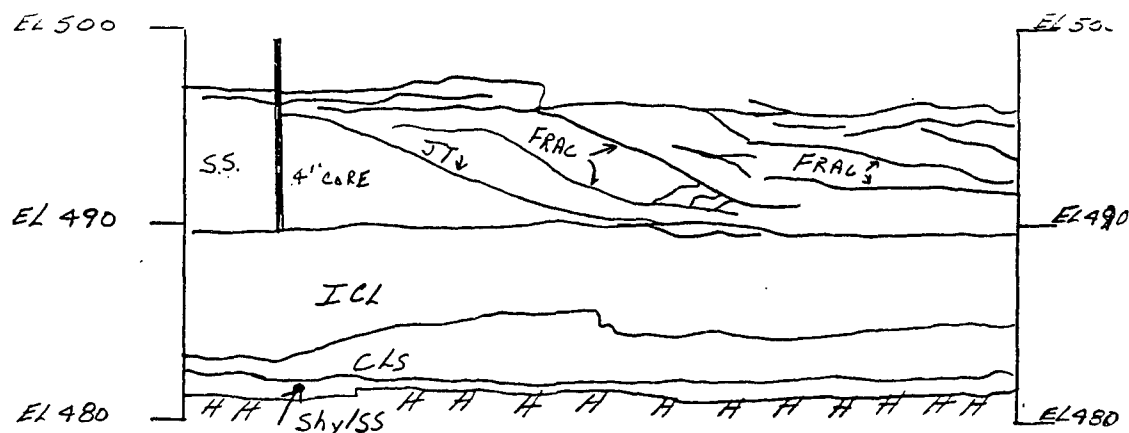
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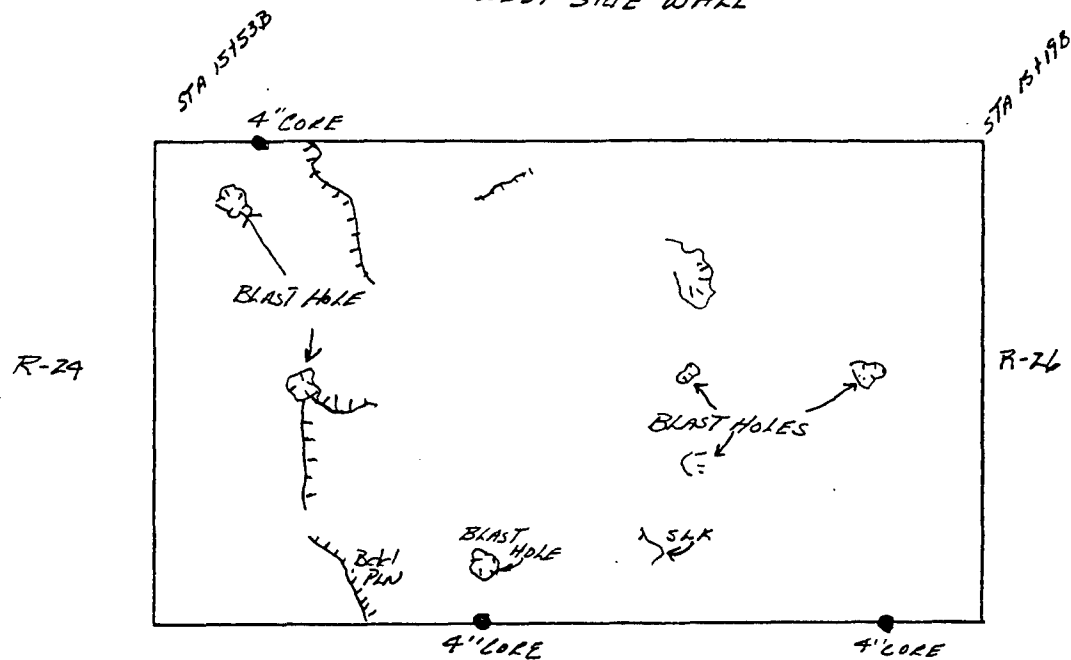


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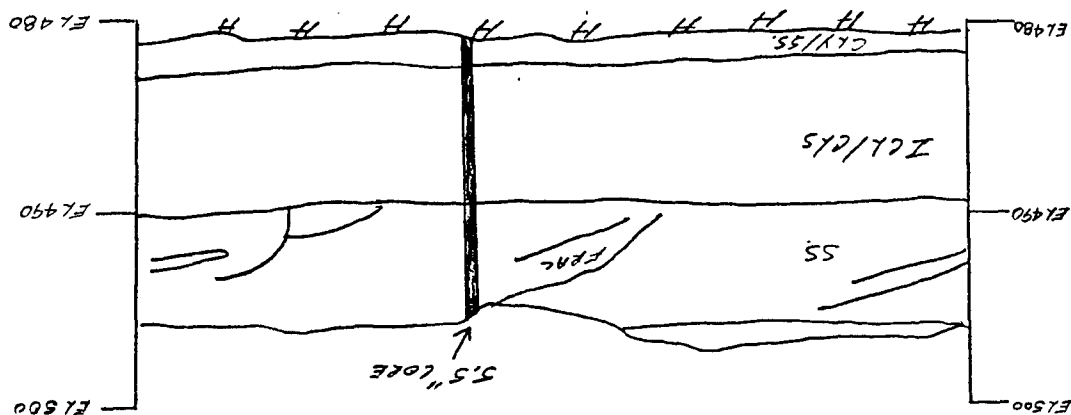
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
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WEST SIDE WALL

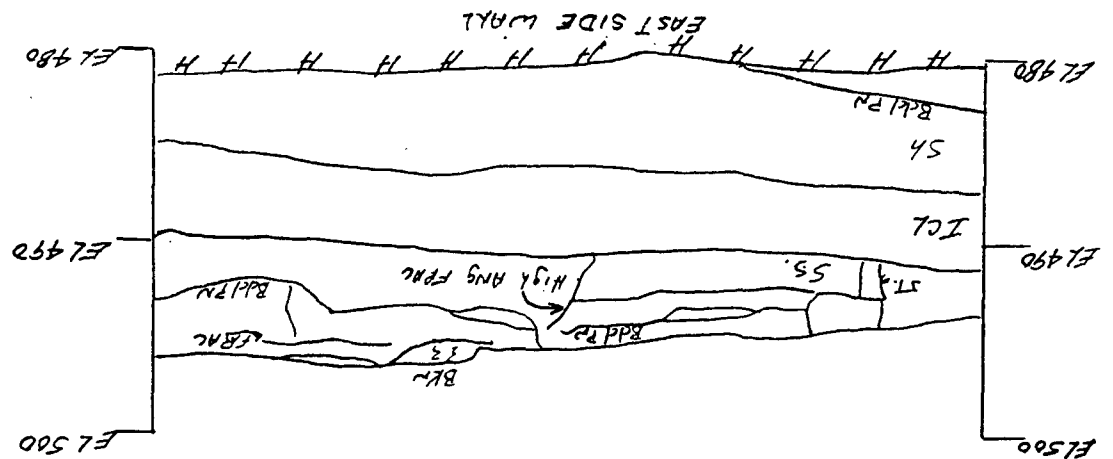
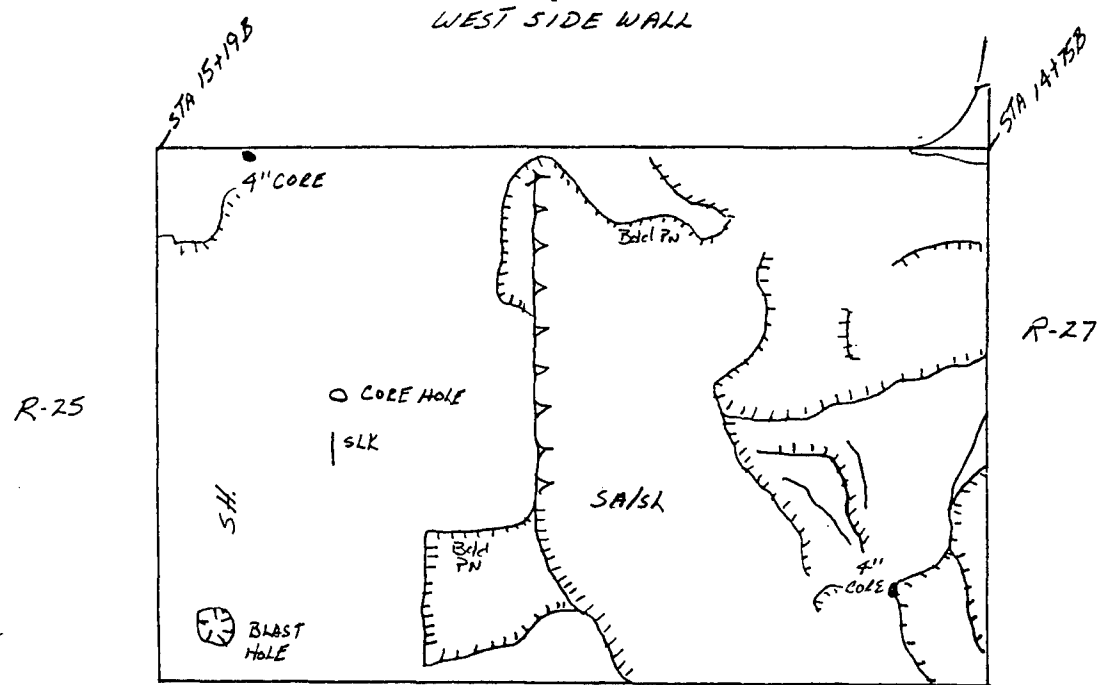
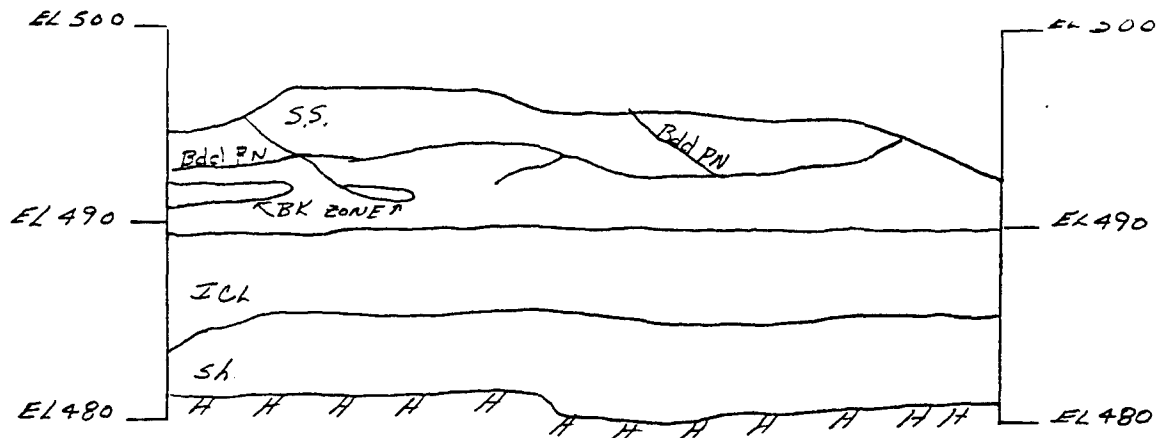


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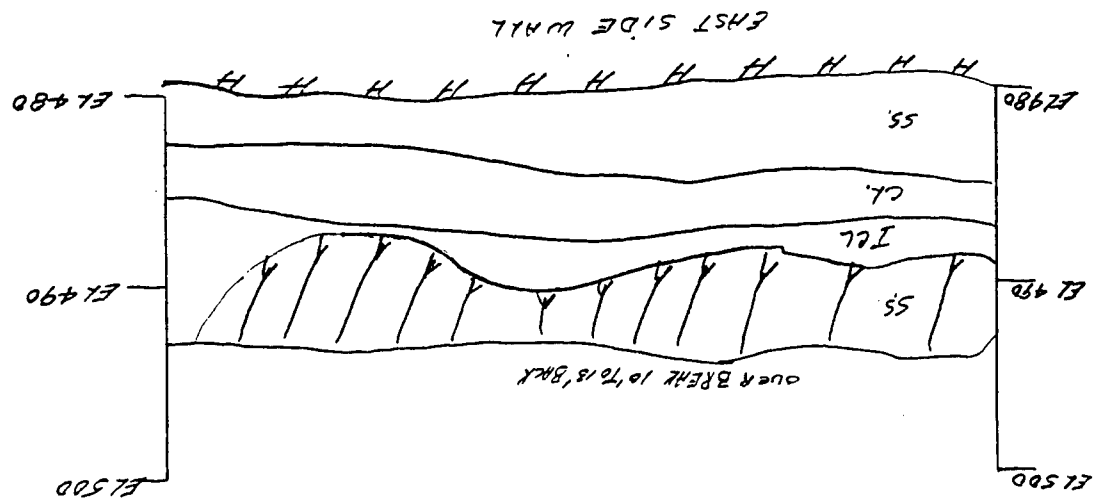
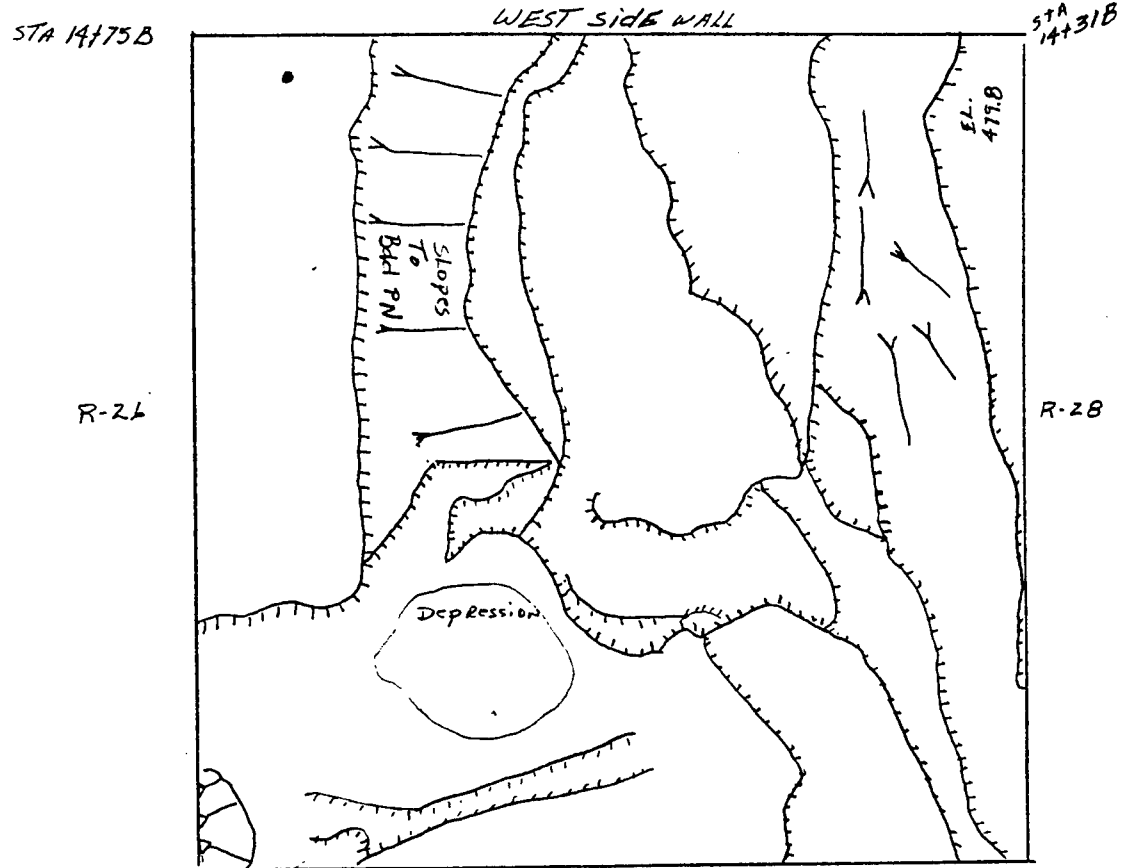
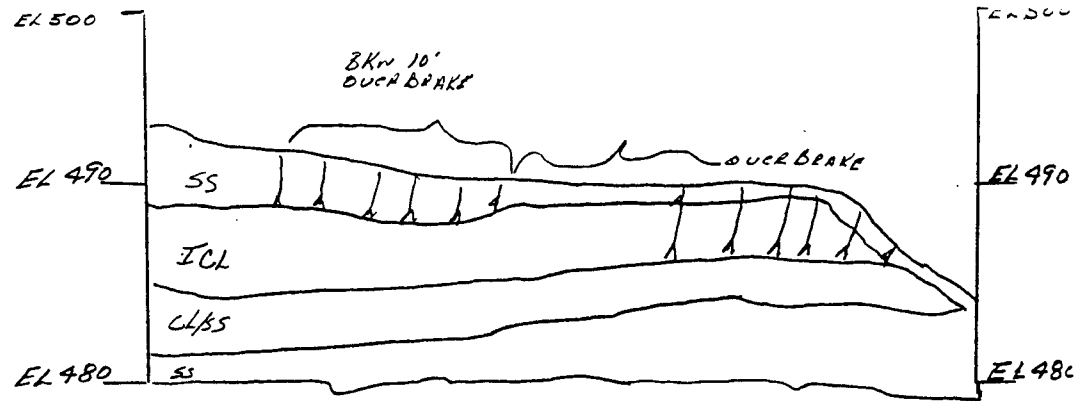
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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 25



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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 26

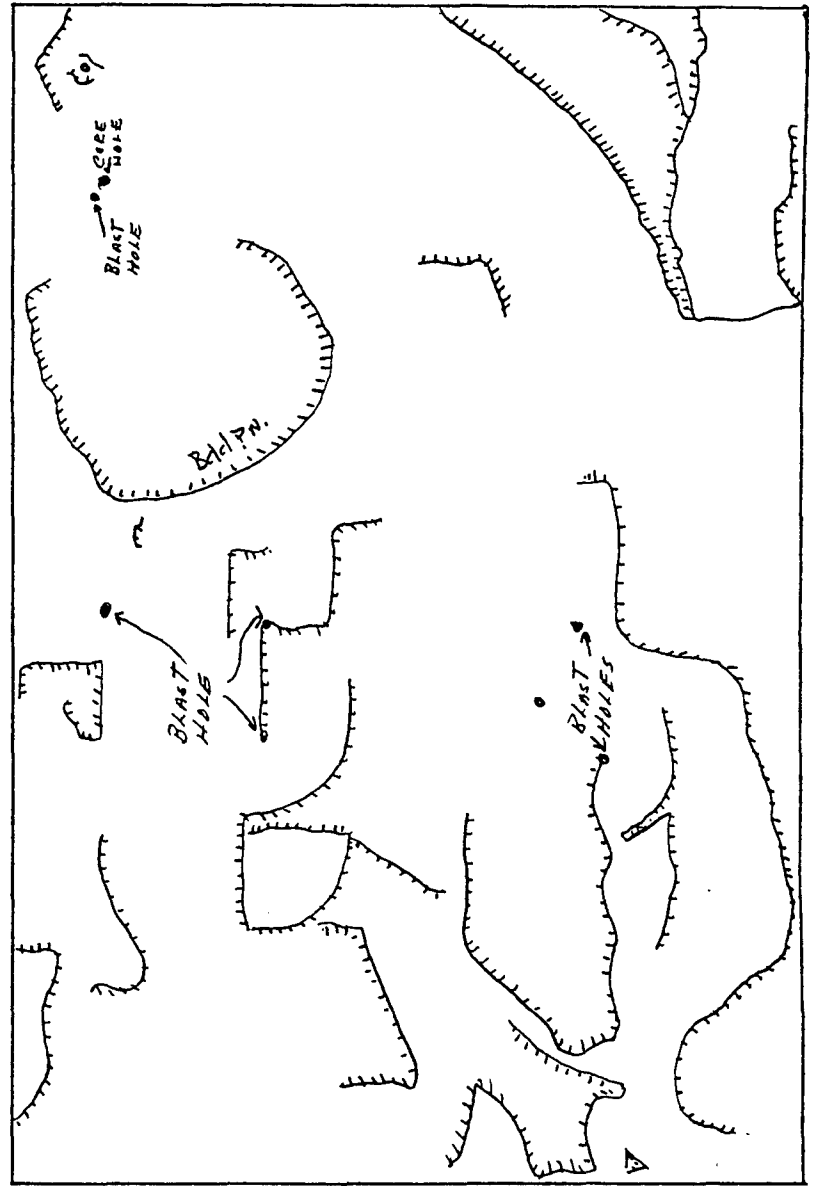


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 27

R-27

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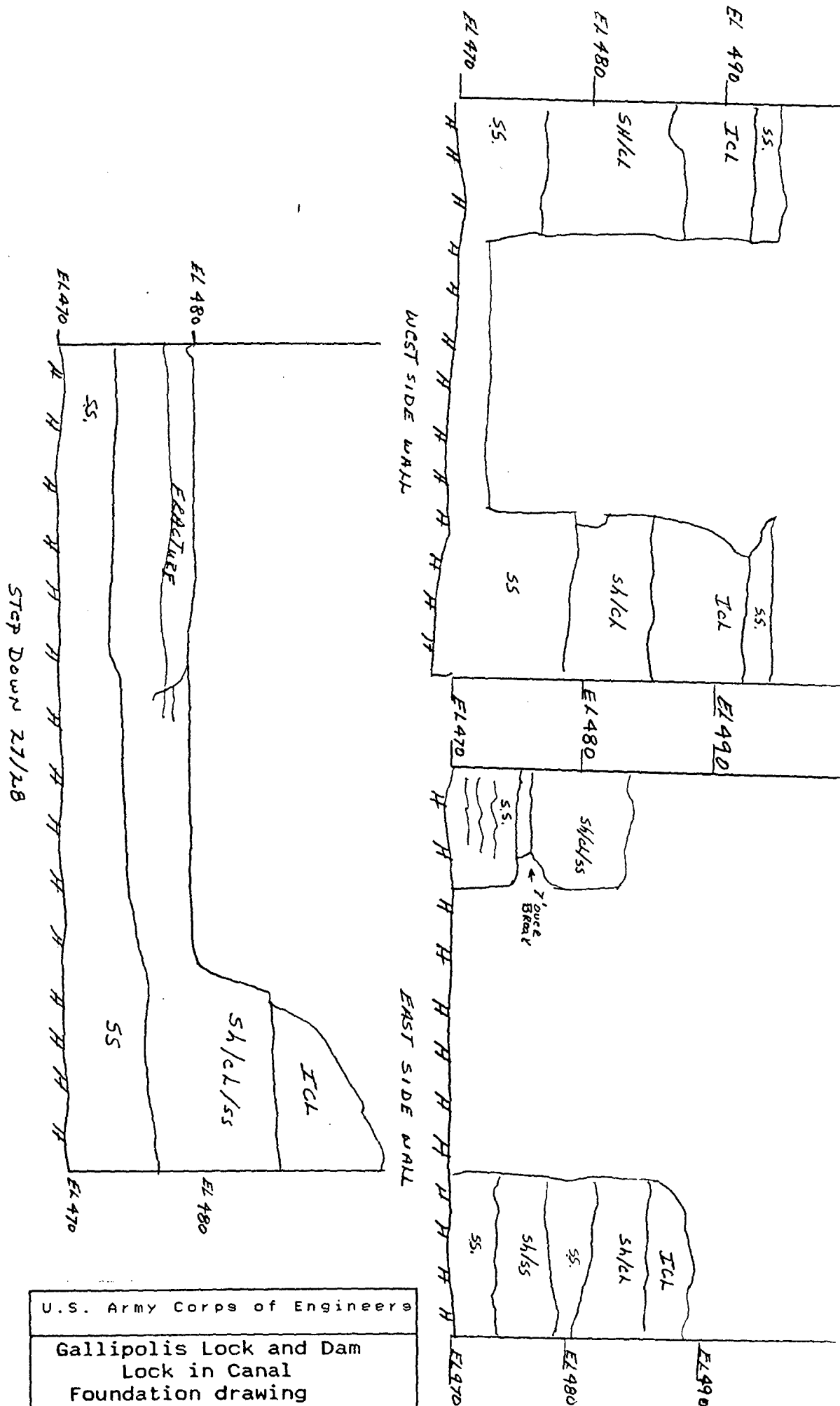


STA. 13+89.8

R-29

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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 28



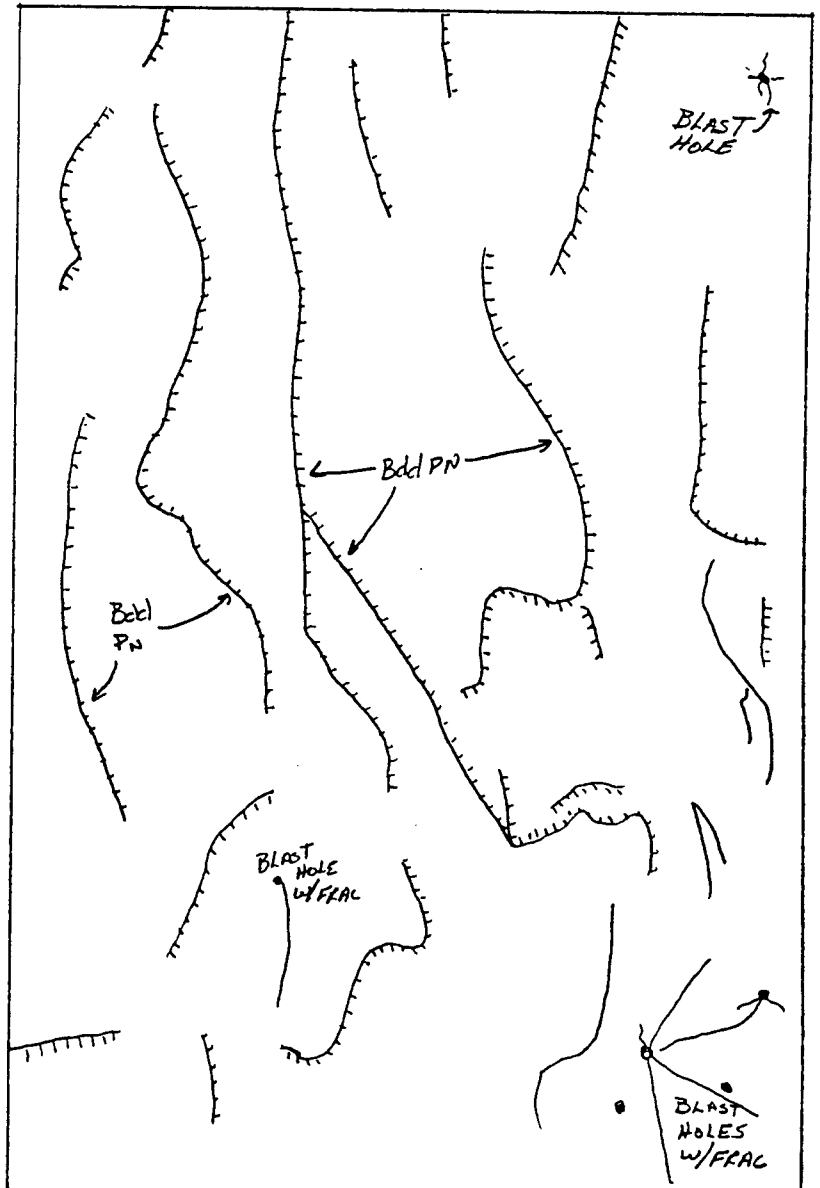
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 Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation drawing  
 River Wall Monolith 28

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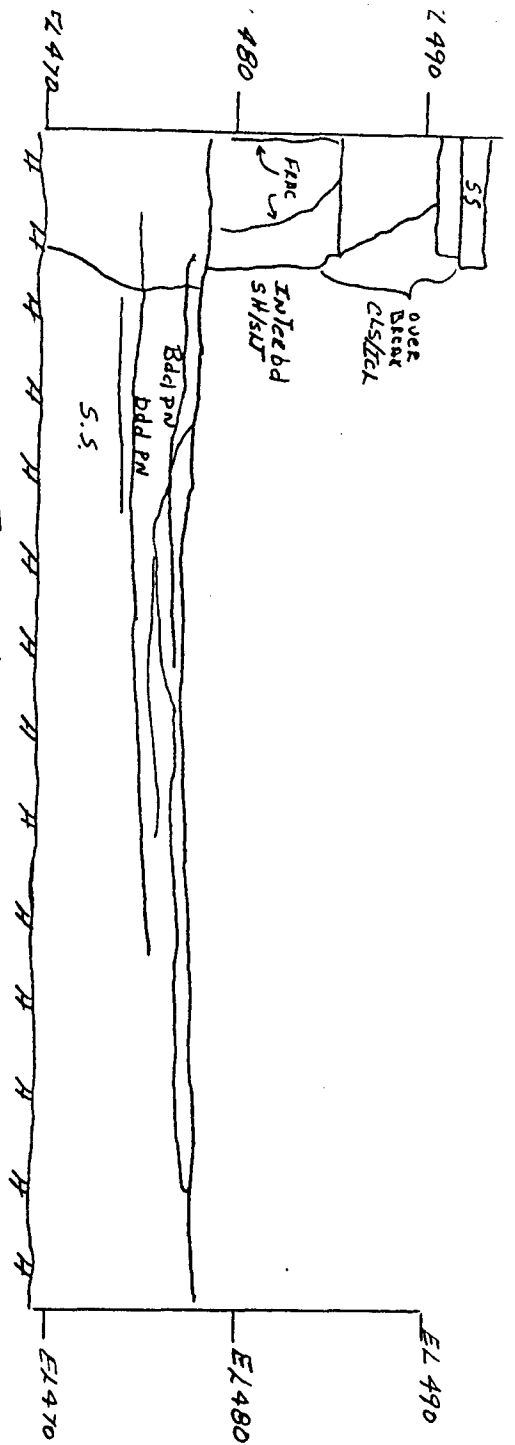
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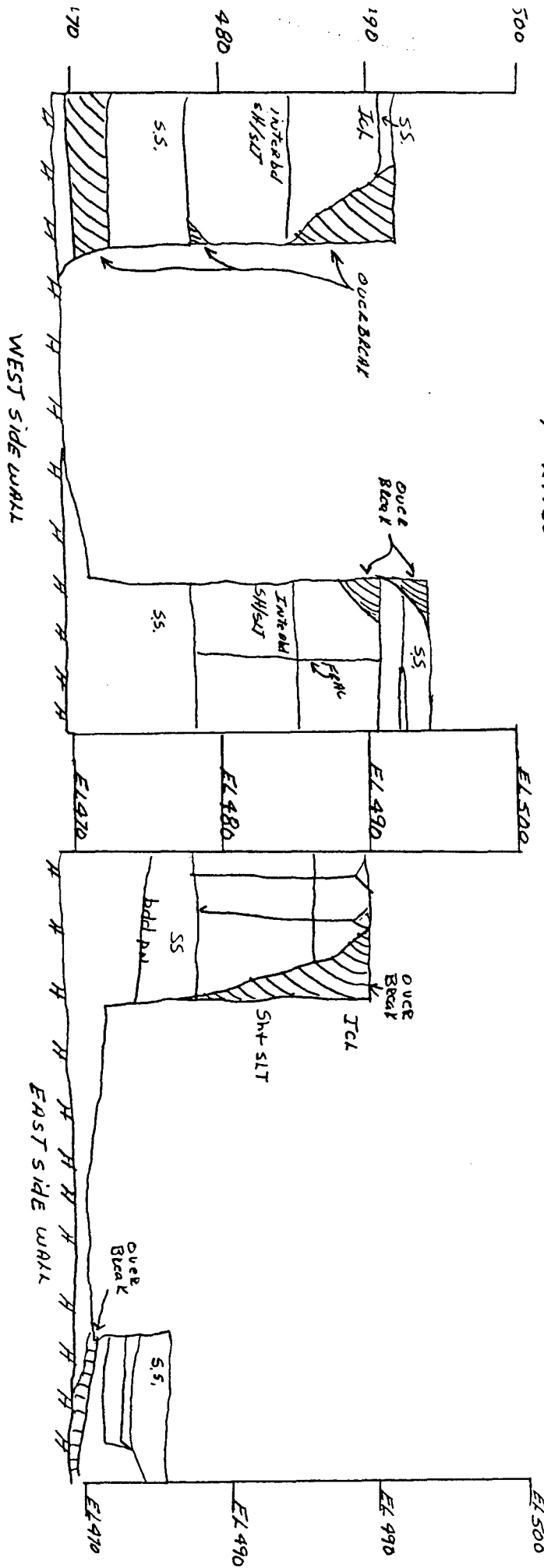


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 29



STEP 29/30



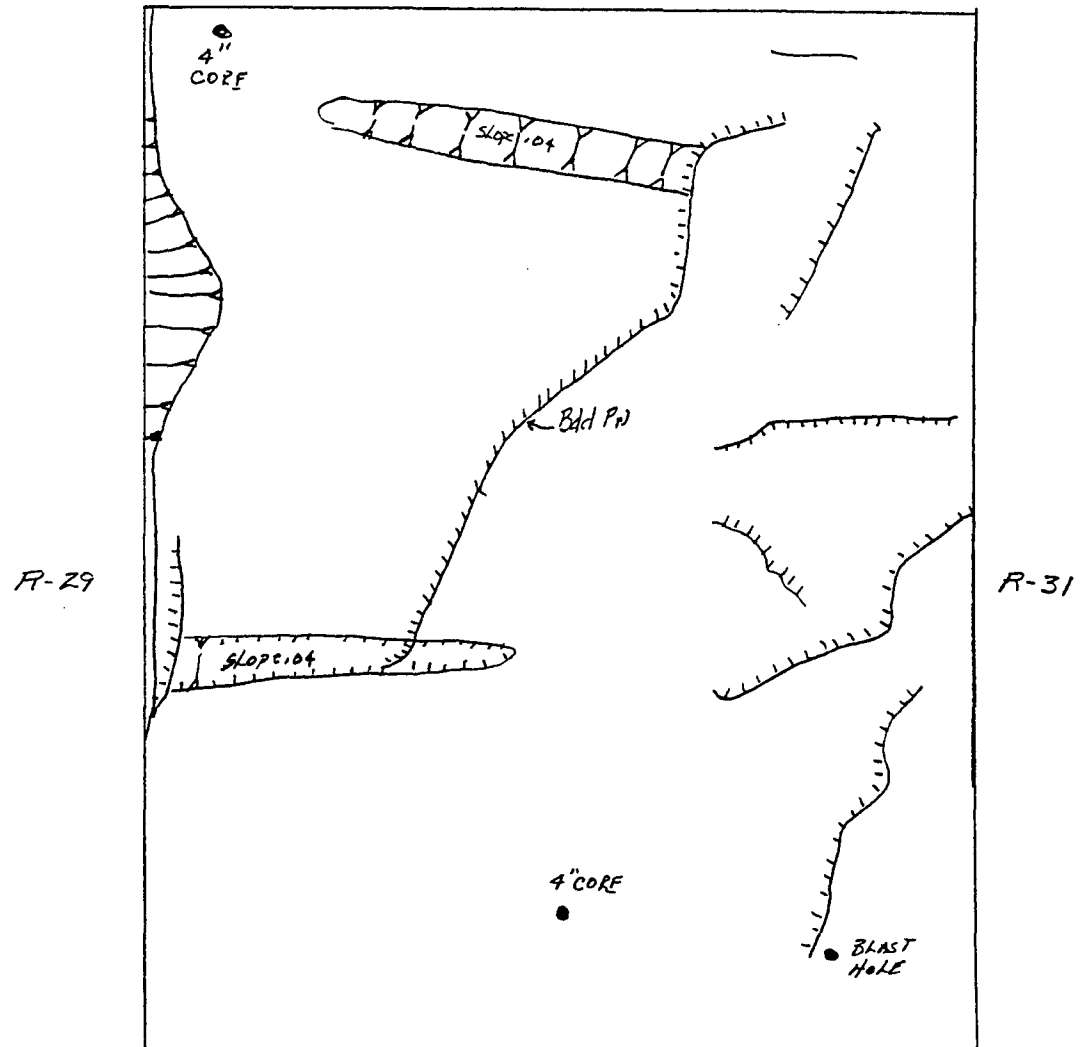
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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 29



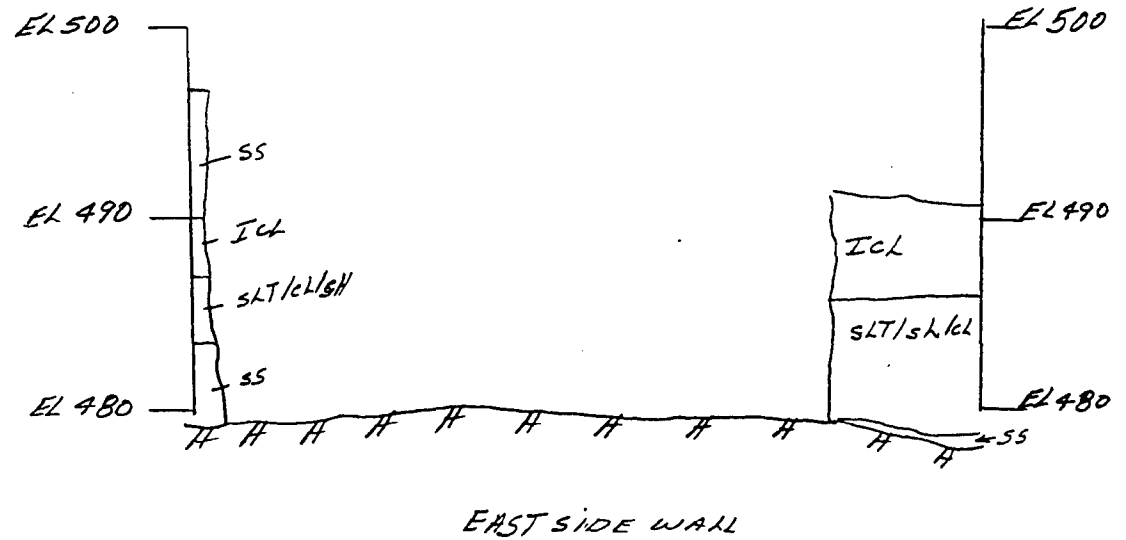
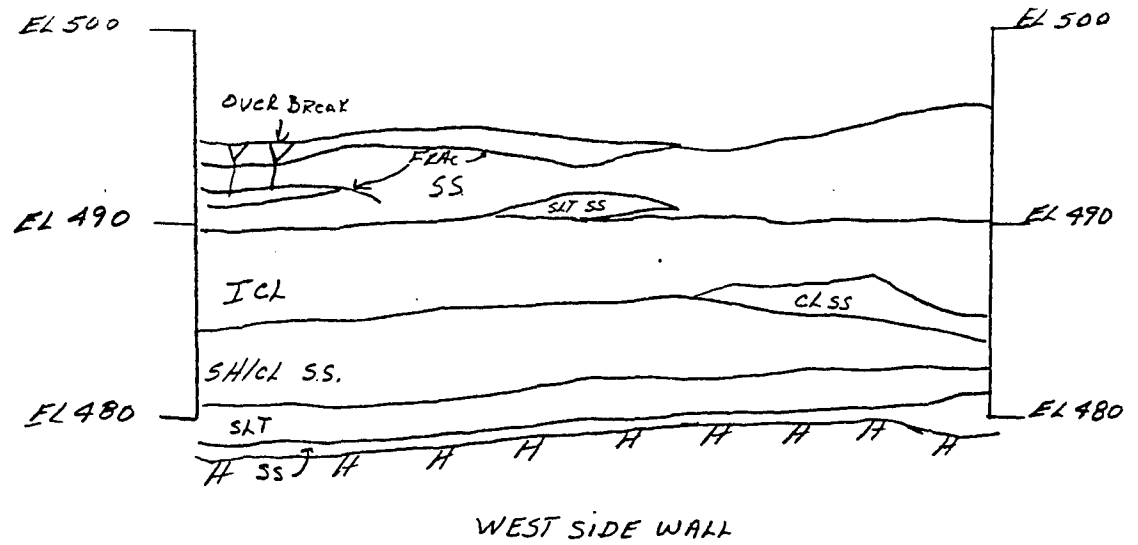
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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 30

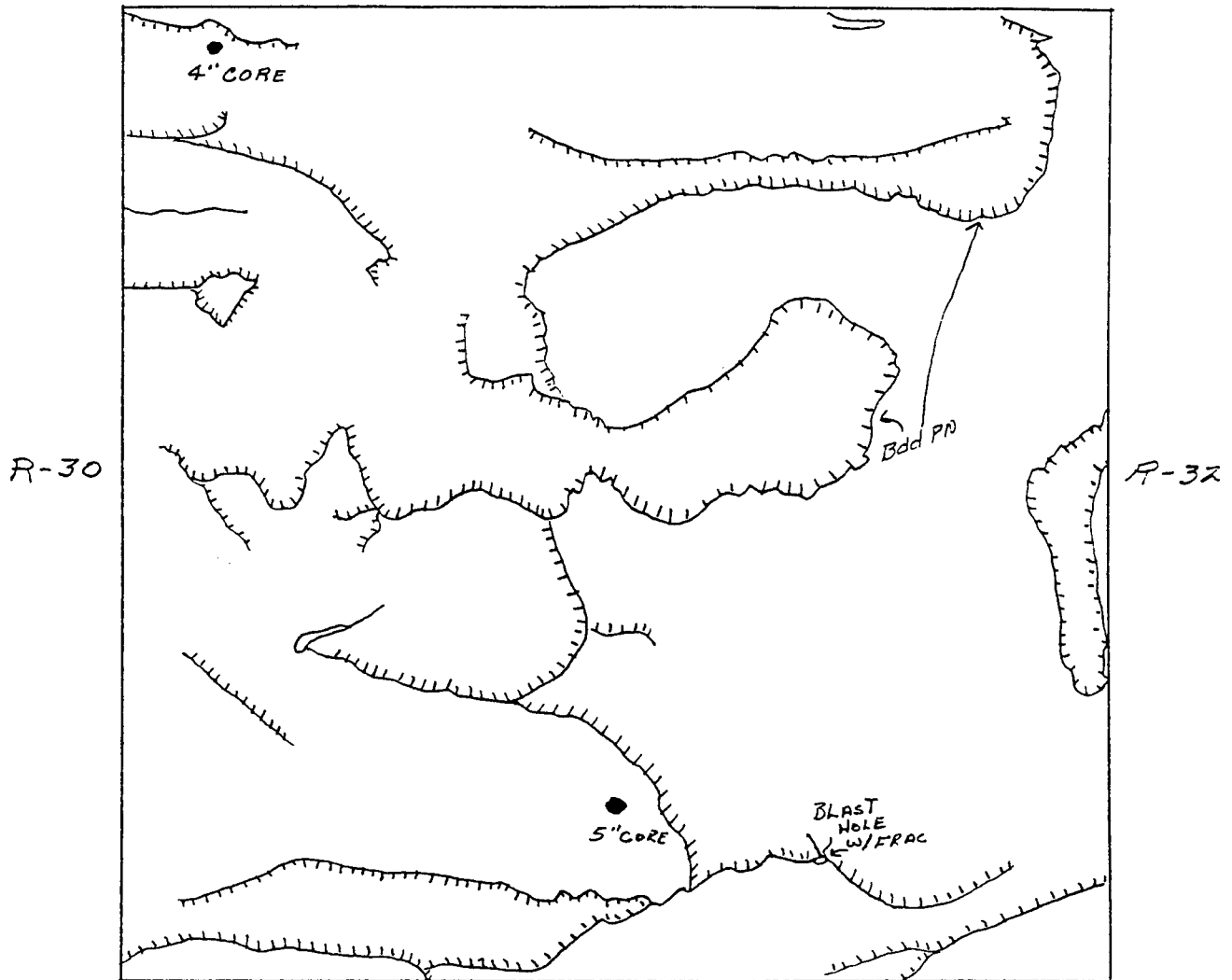


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 30

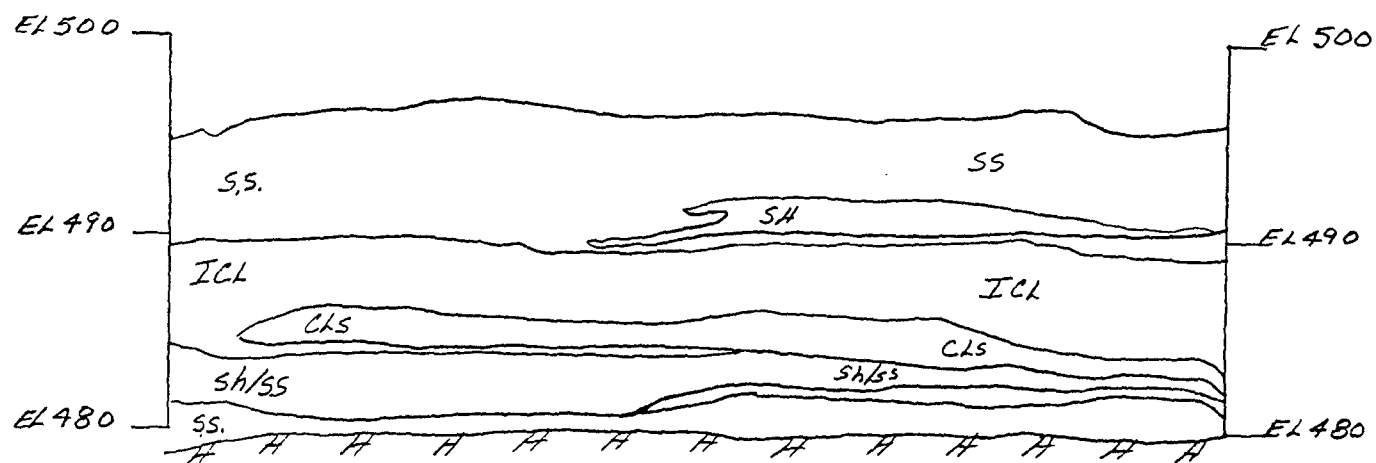
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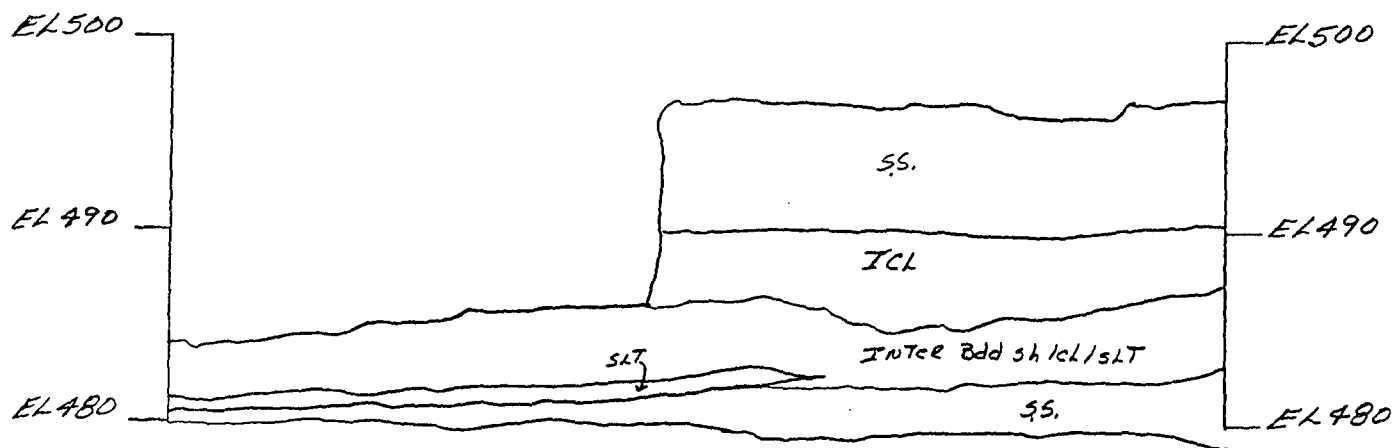


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 31



WEST SIDE WALL



EAST SIDE WALL

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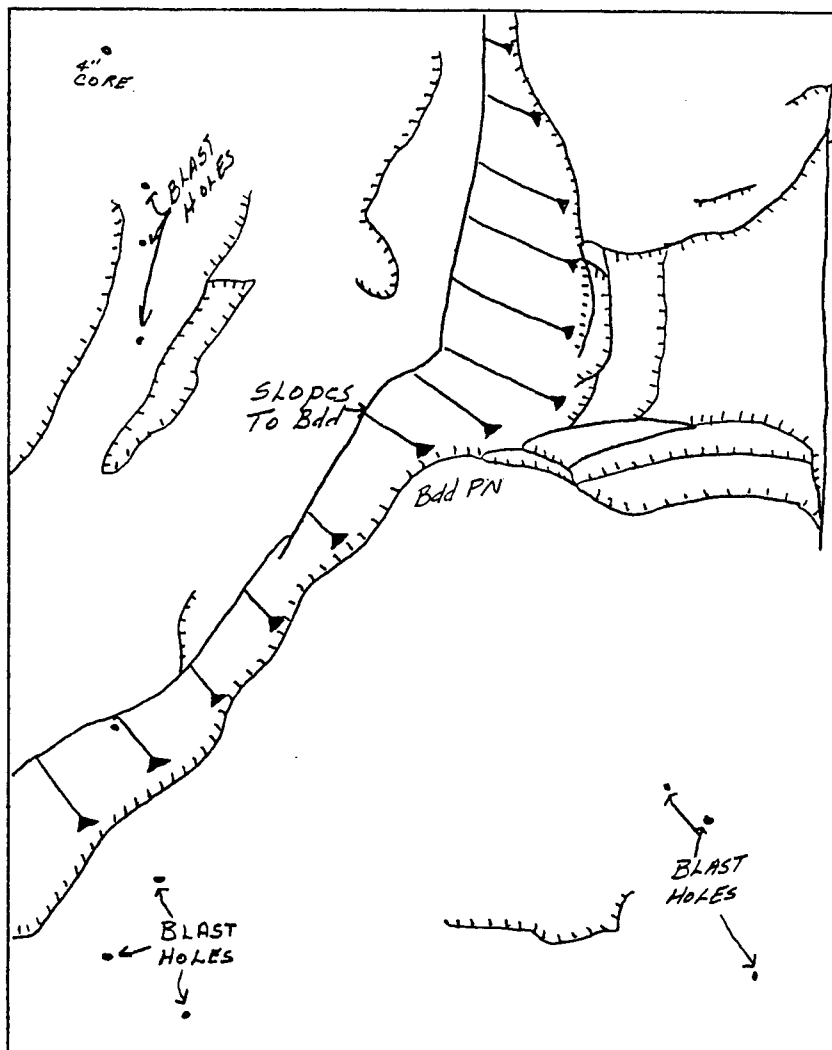
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Foundation drawing  
River Wall Monolith 31

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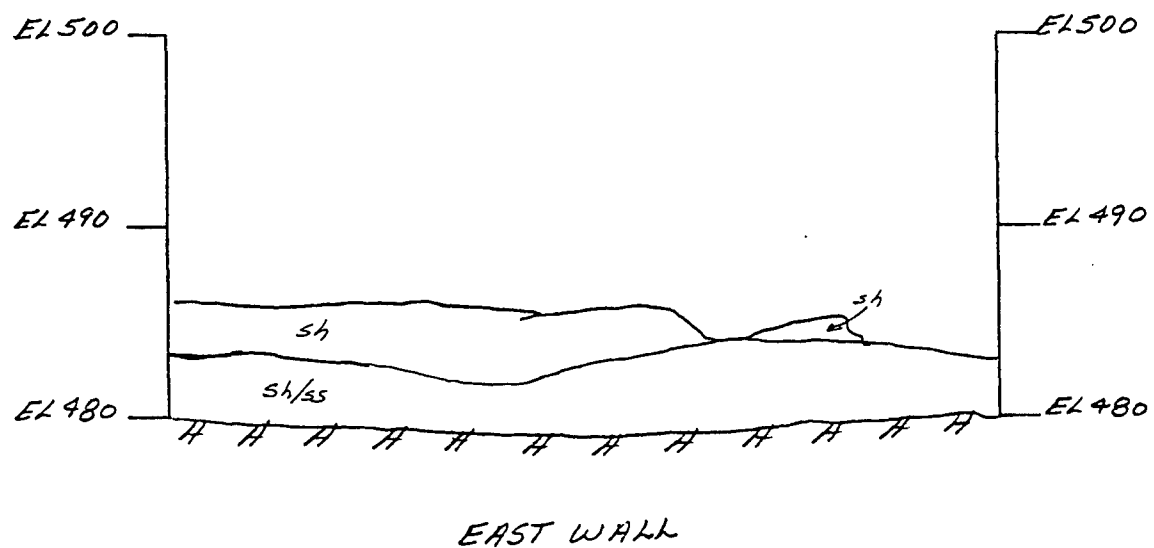
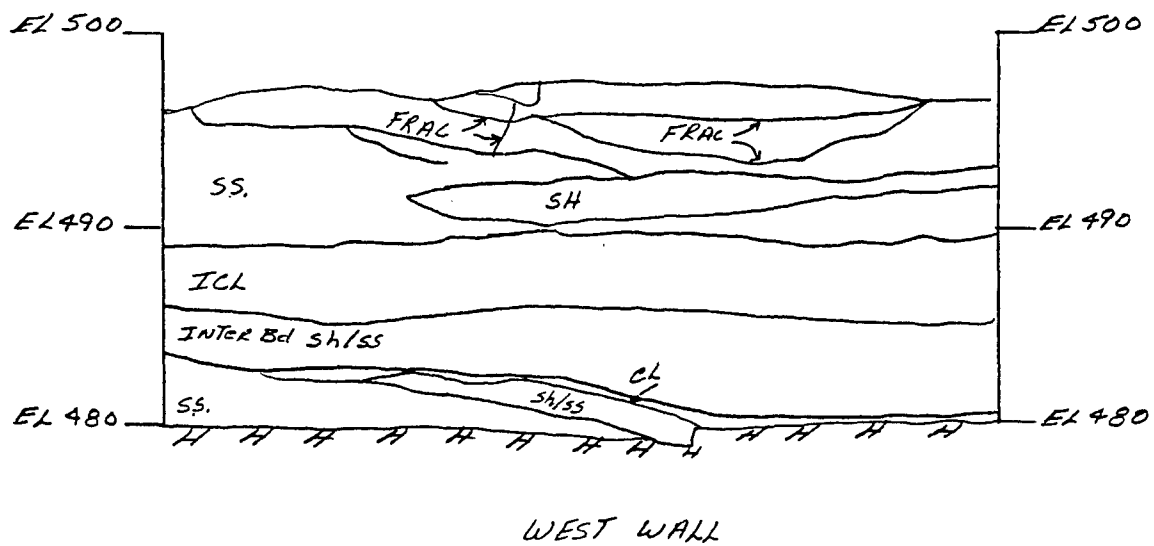
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R-33



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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 32

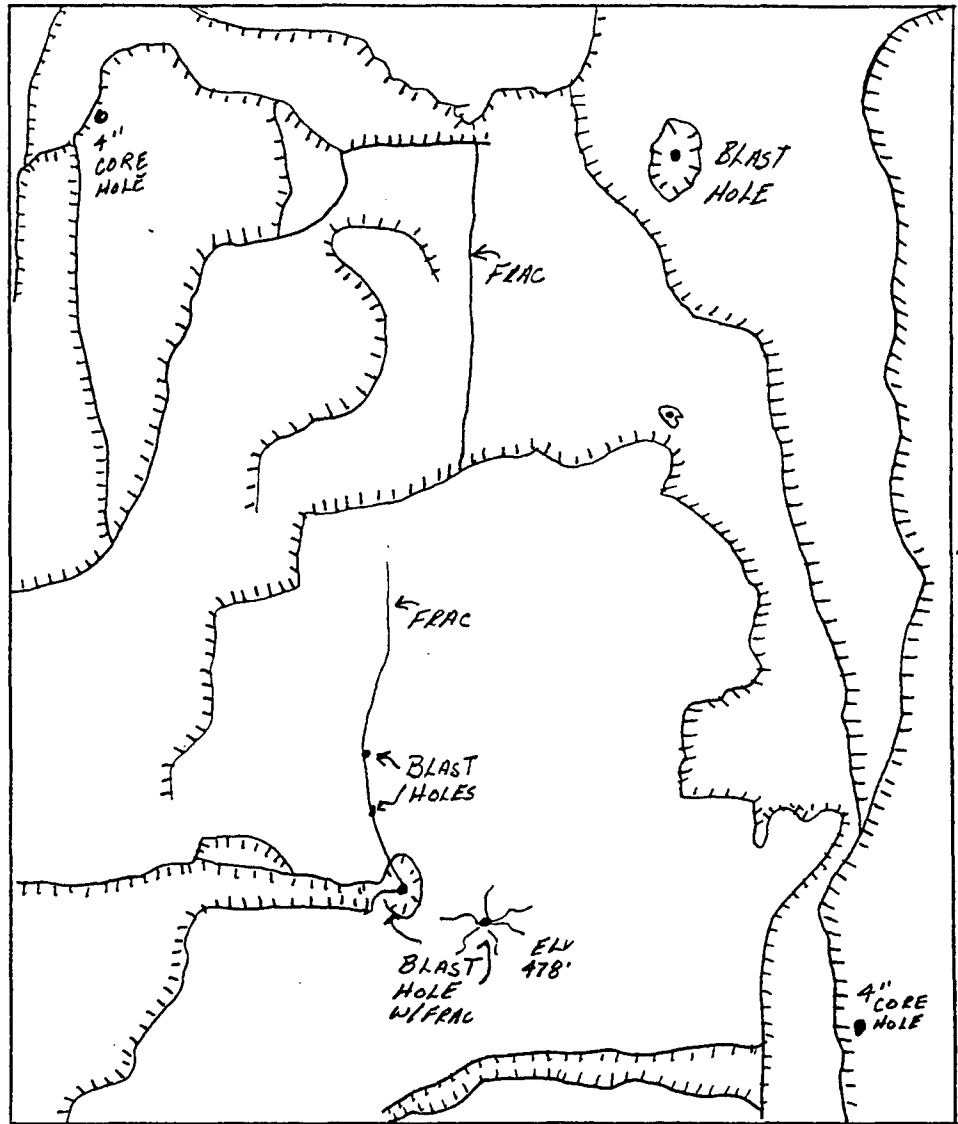


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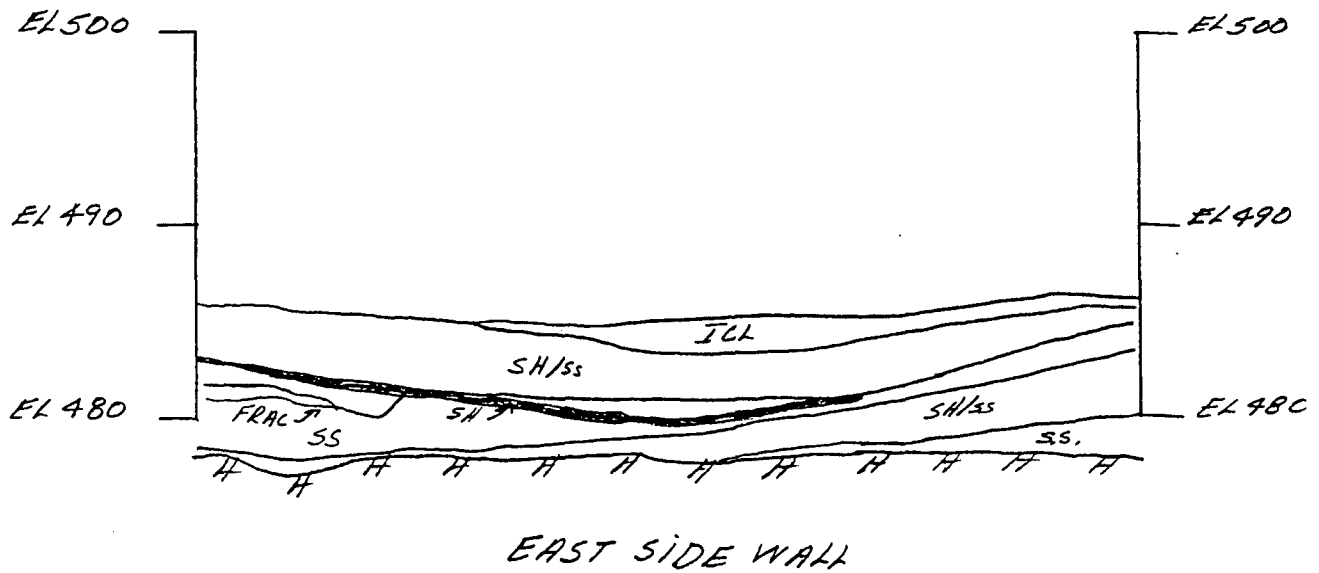
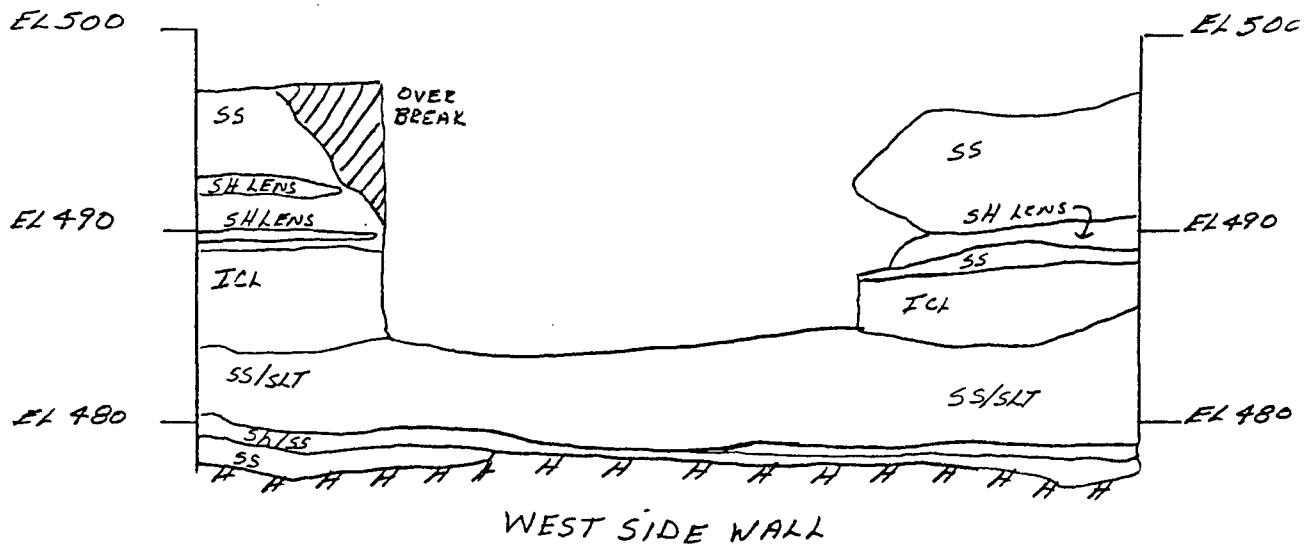
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R-34



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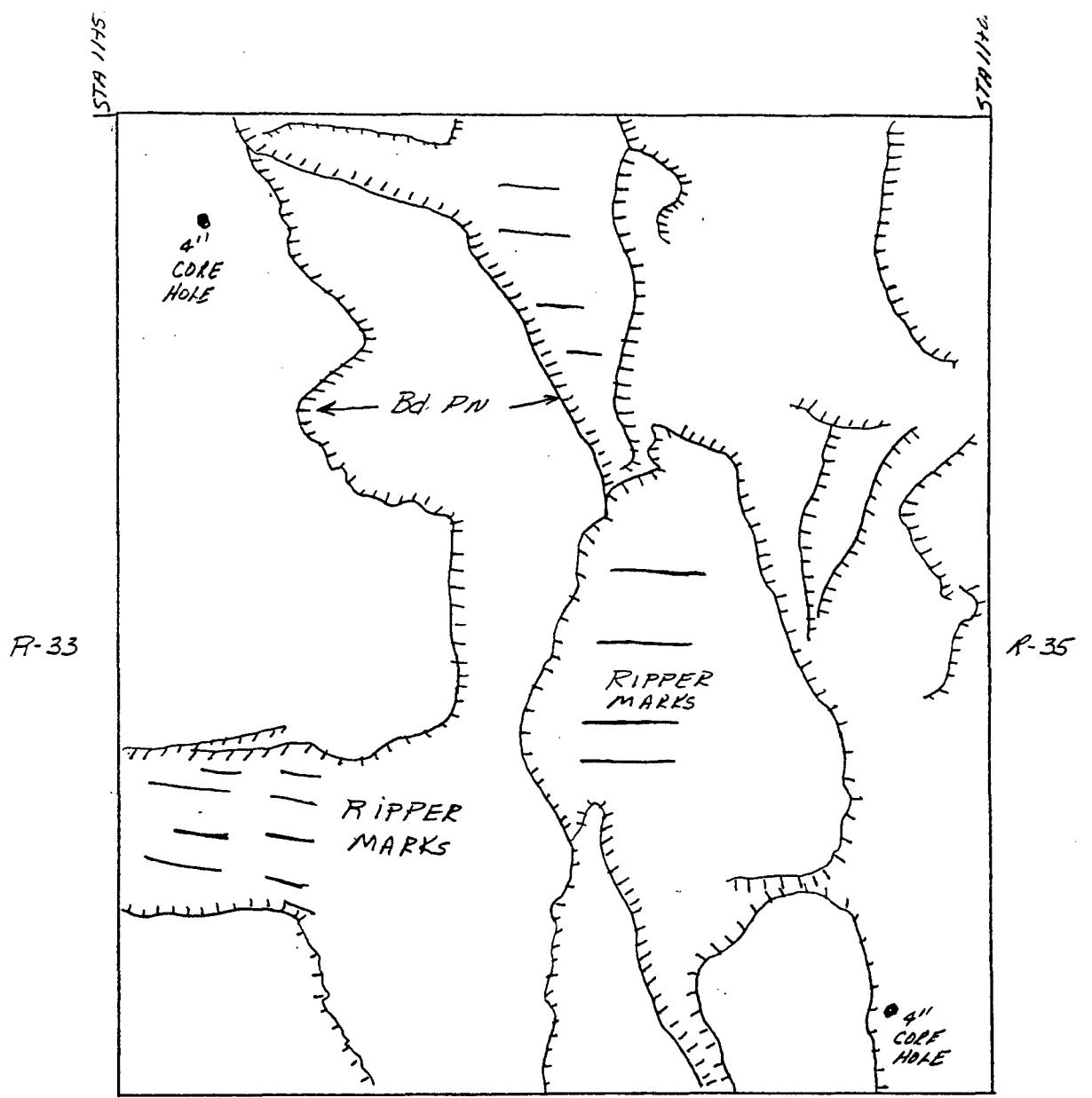
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 33

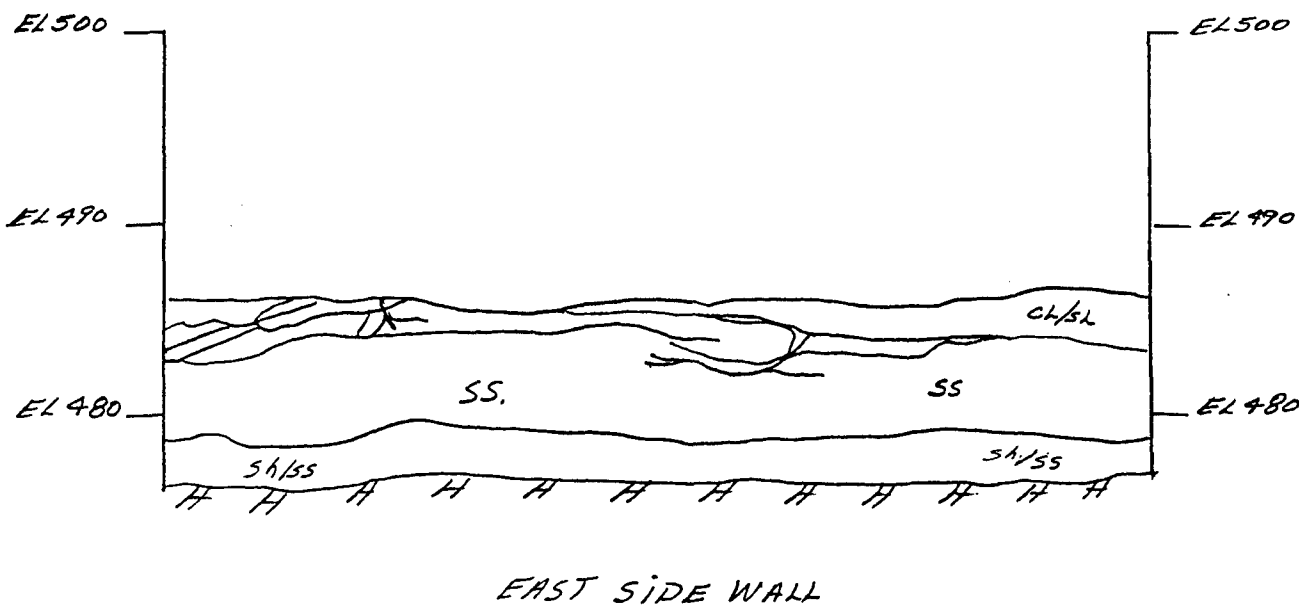
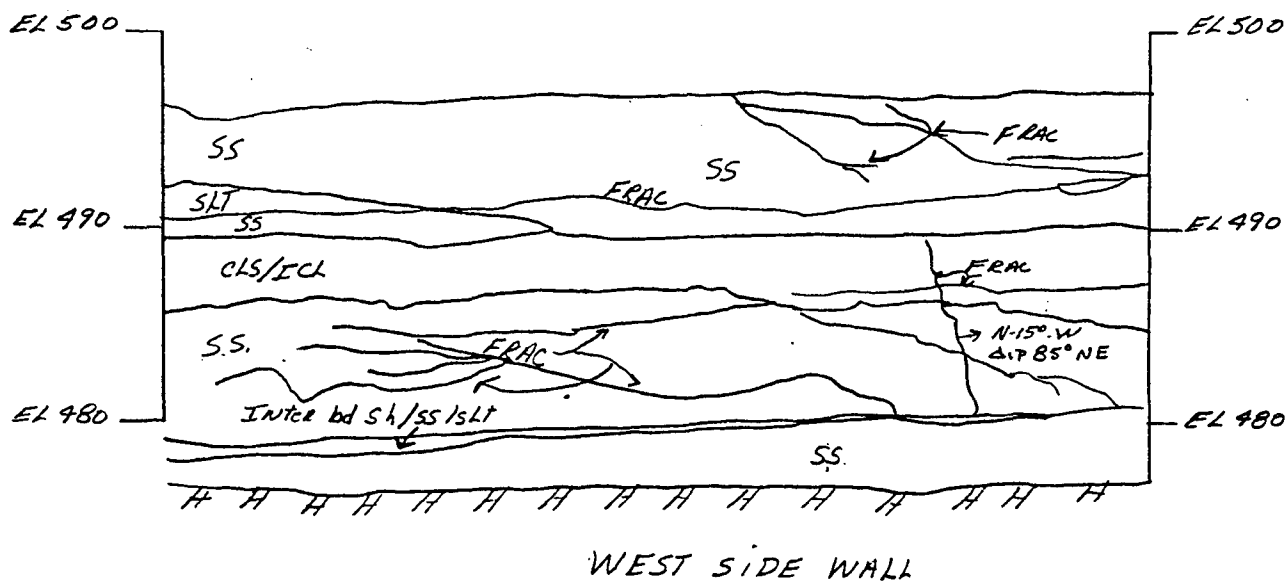


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 33





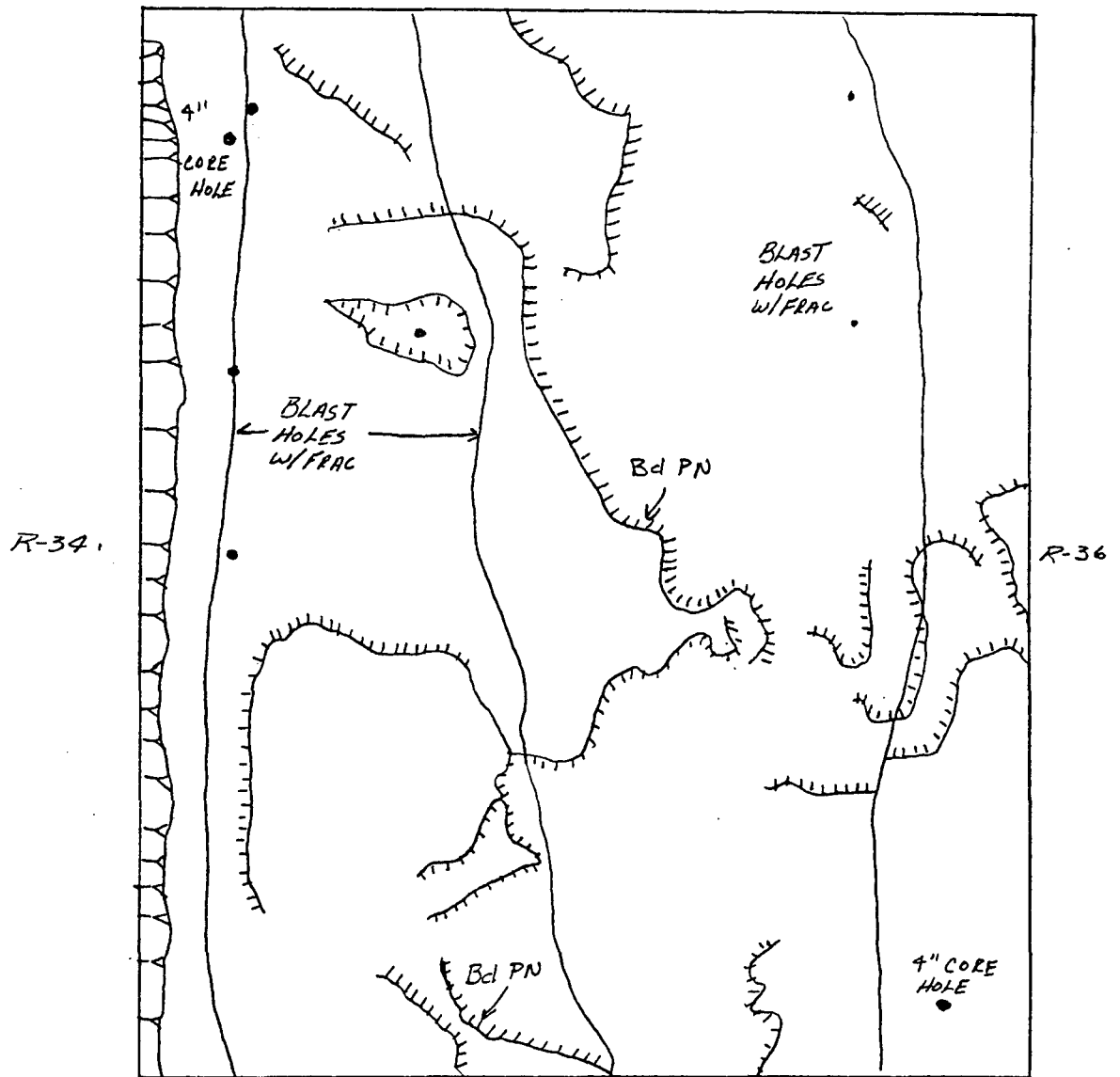


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 34

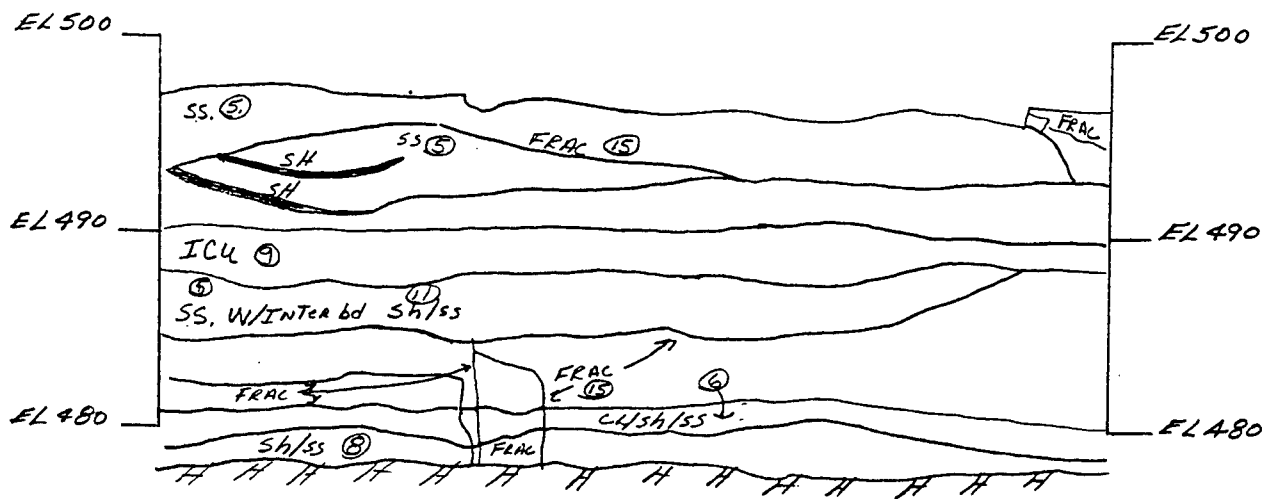
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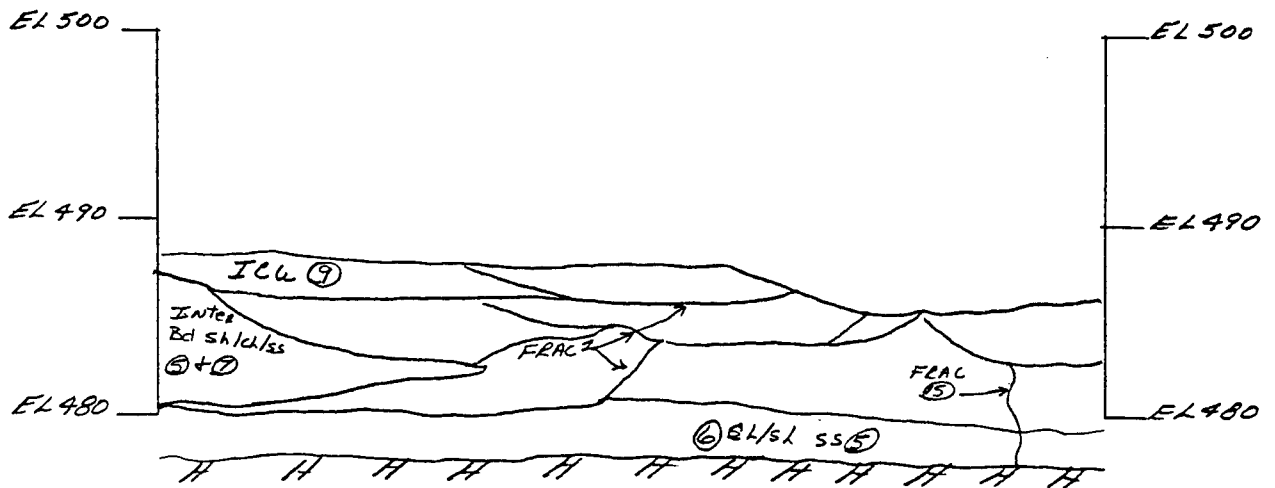


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 35



WEST SIDE WALL



EAST SIDE WALL

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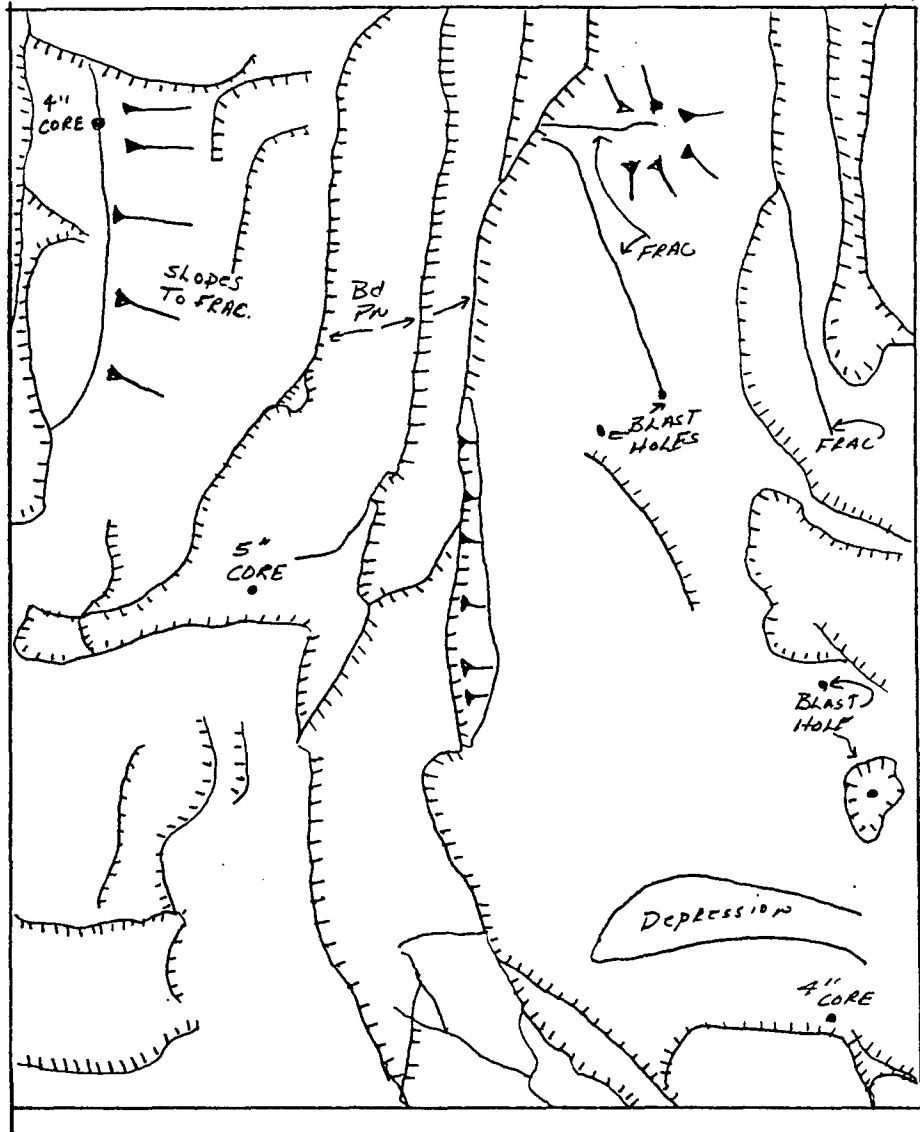
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 35

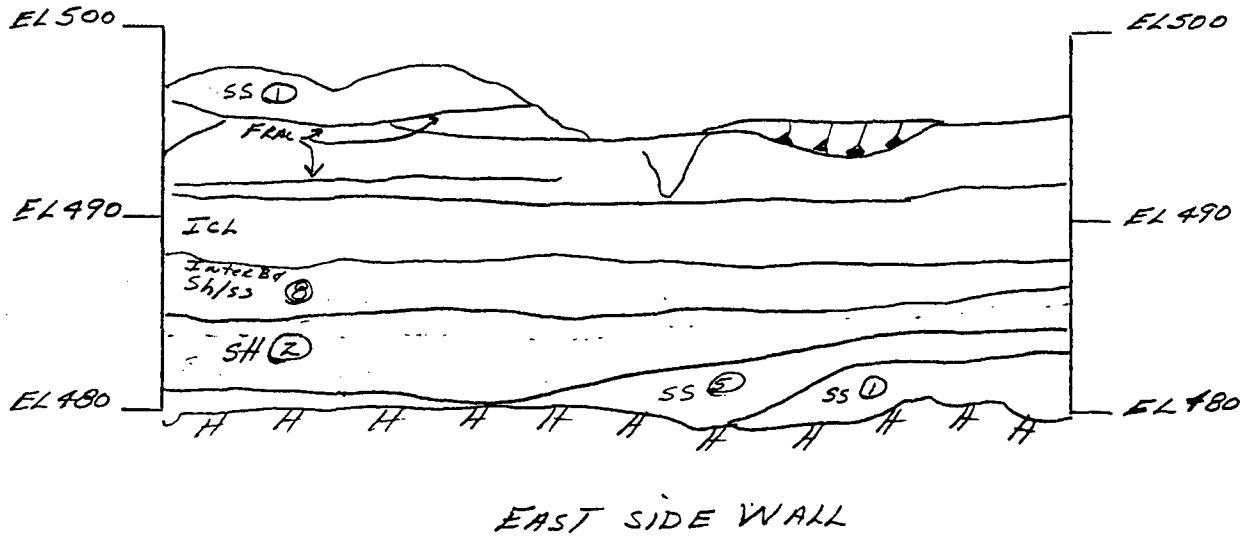
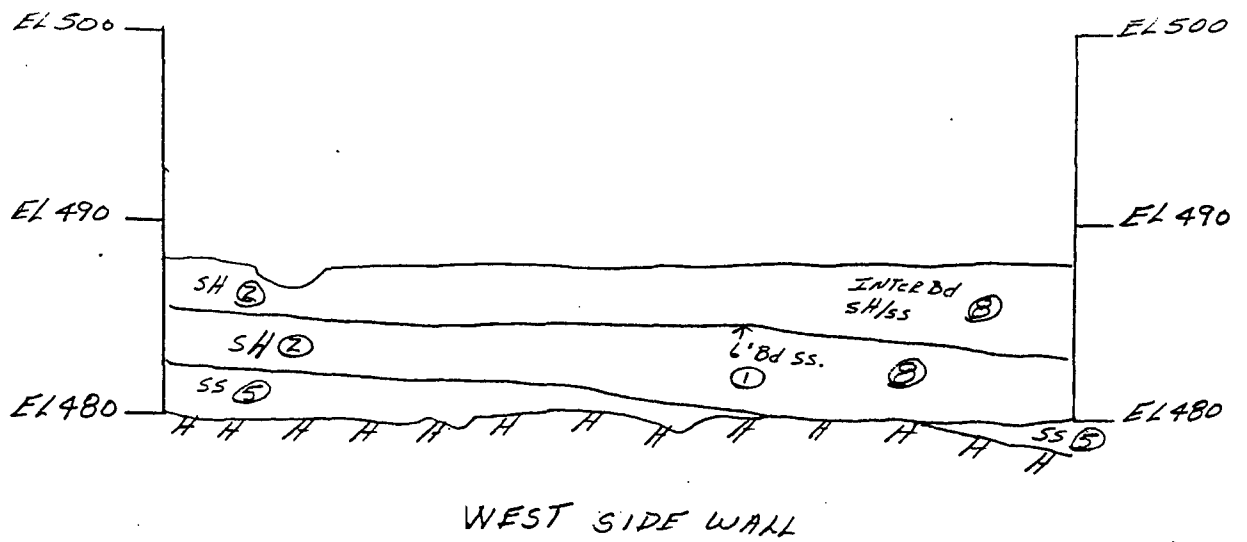
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STA 10+05.8

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R-37



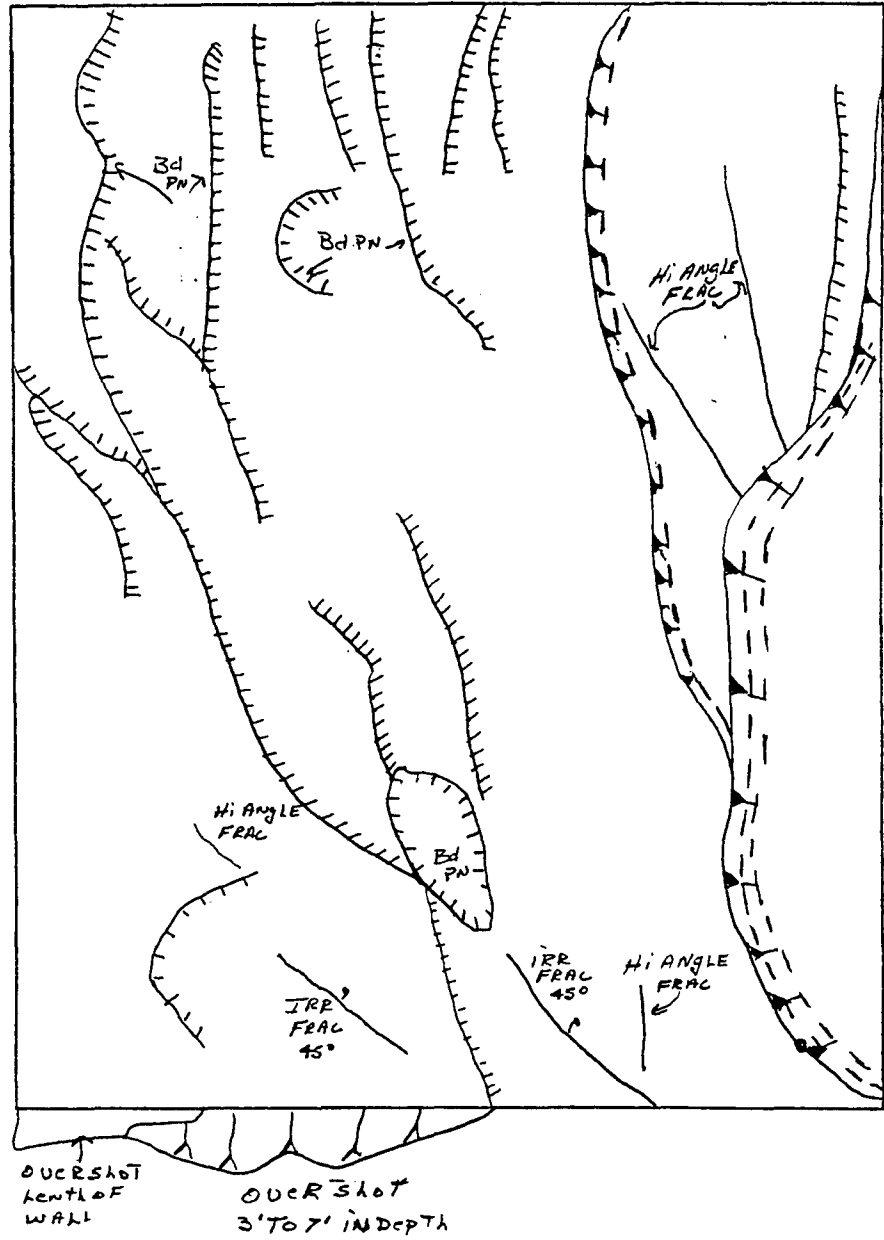


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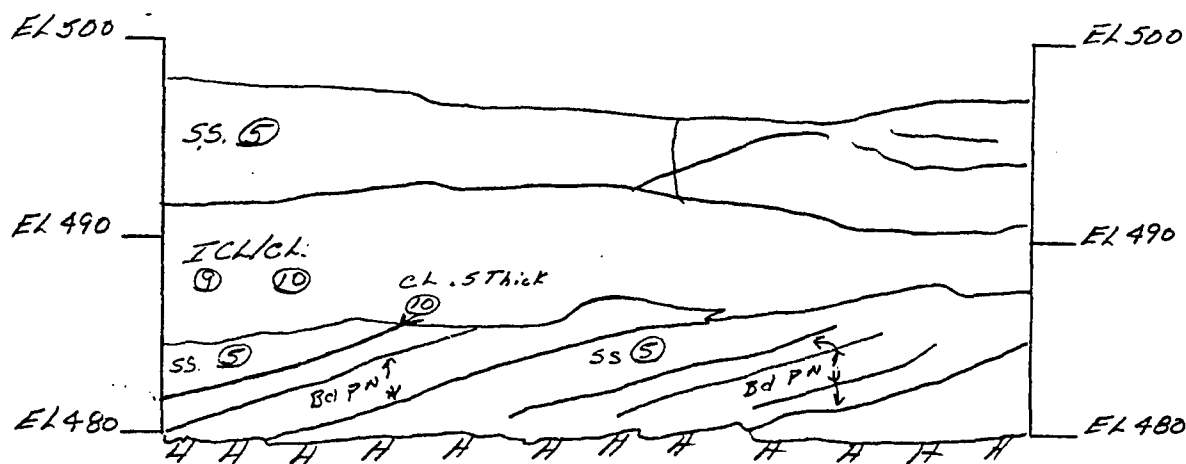
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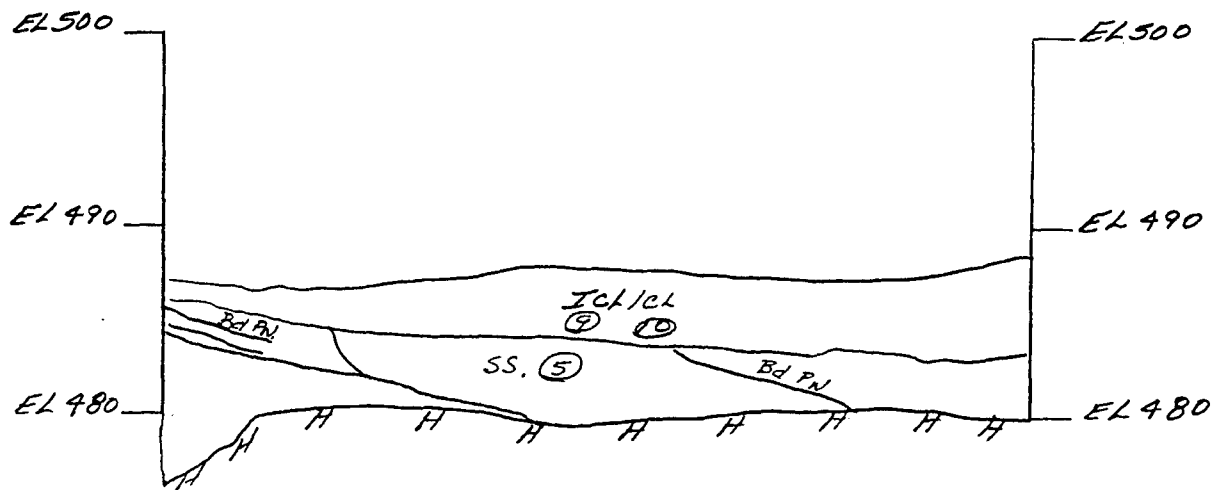


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 37



WEST SIDE WALL

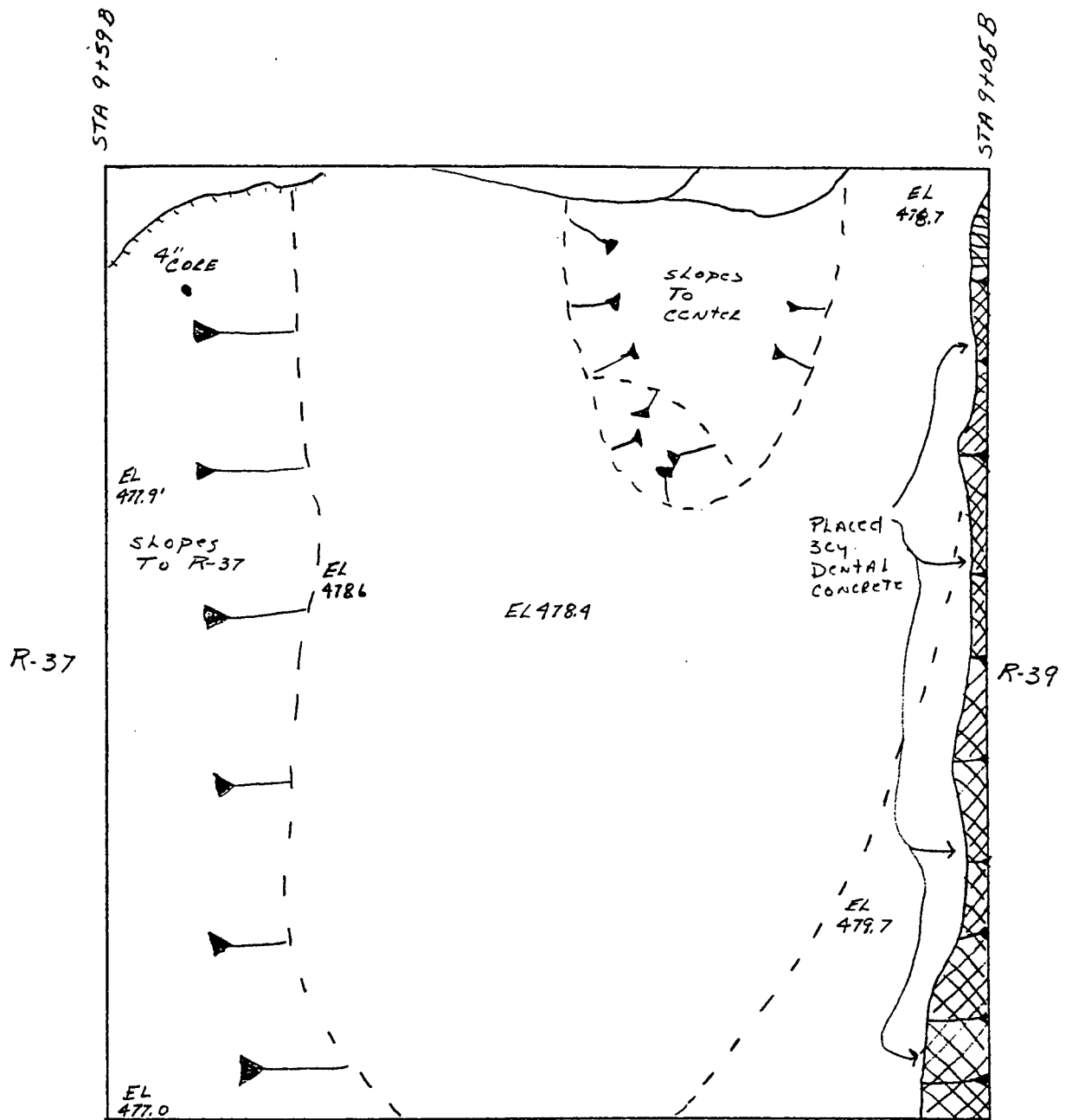


EAST SIDE WALL

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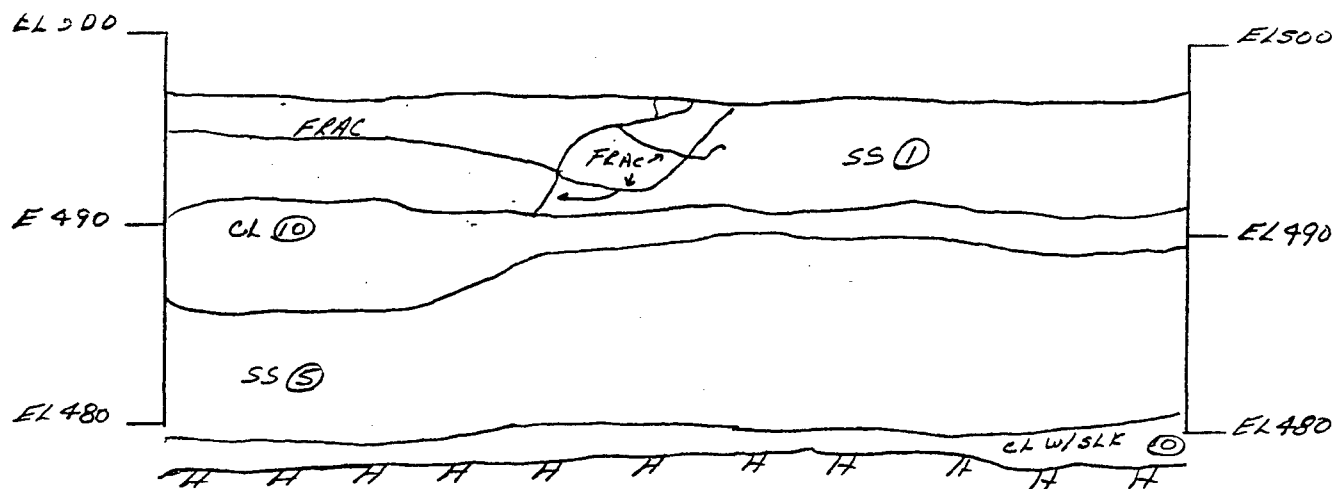
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 37



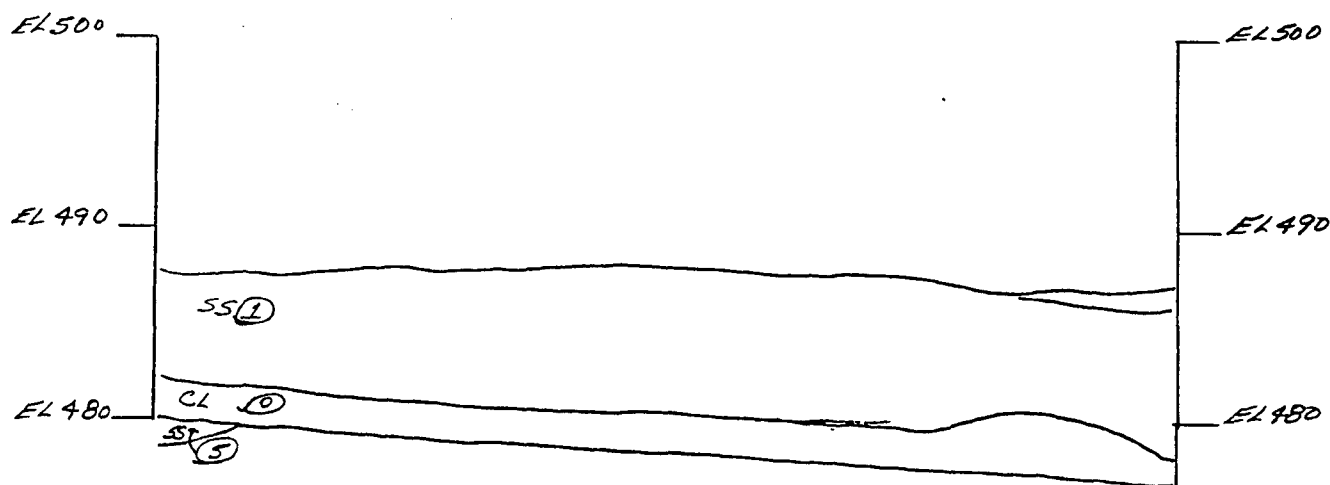


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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 38



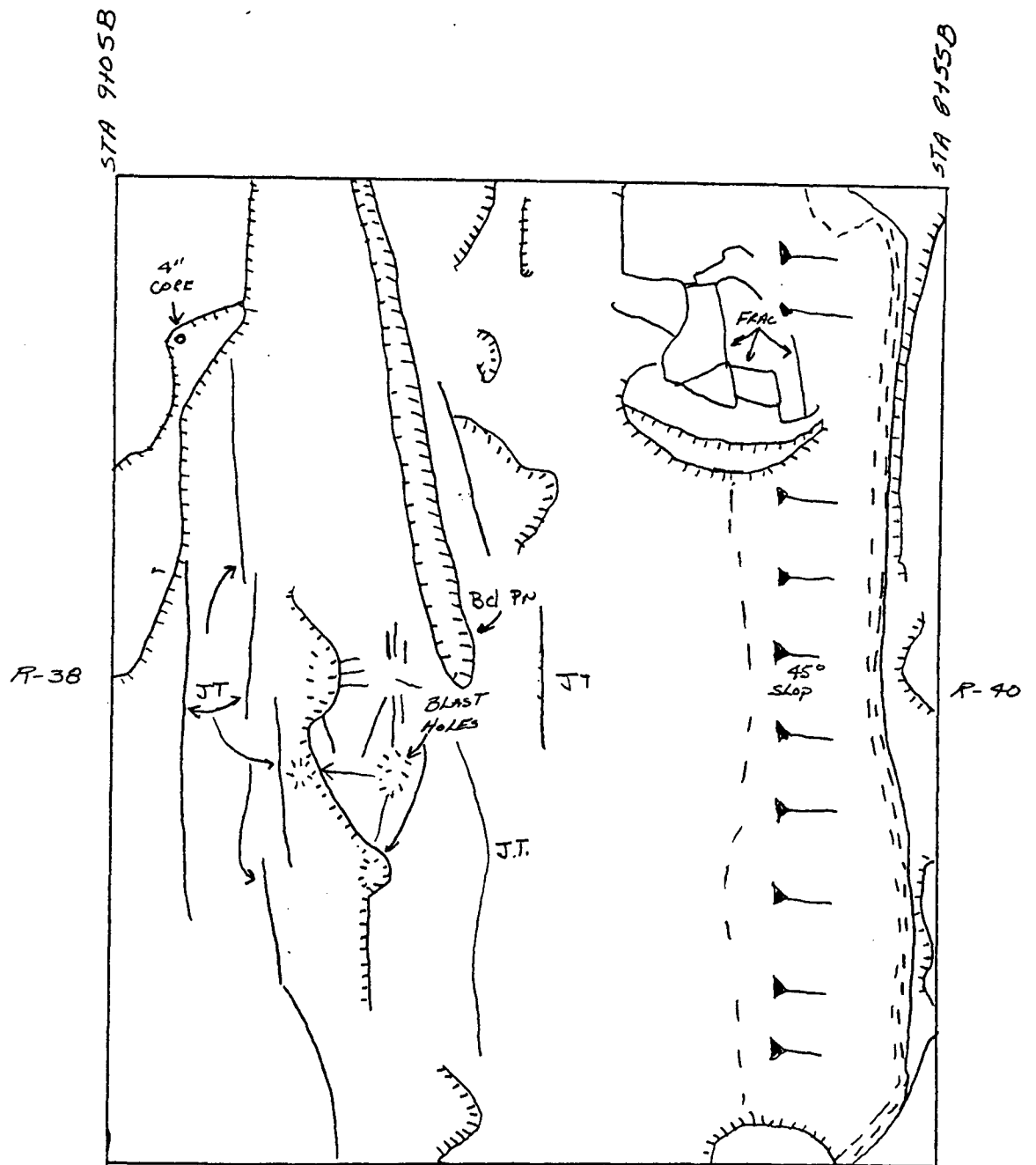
WEST SIDE WALL



EAST SIDE WALL

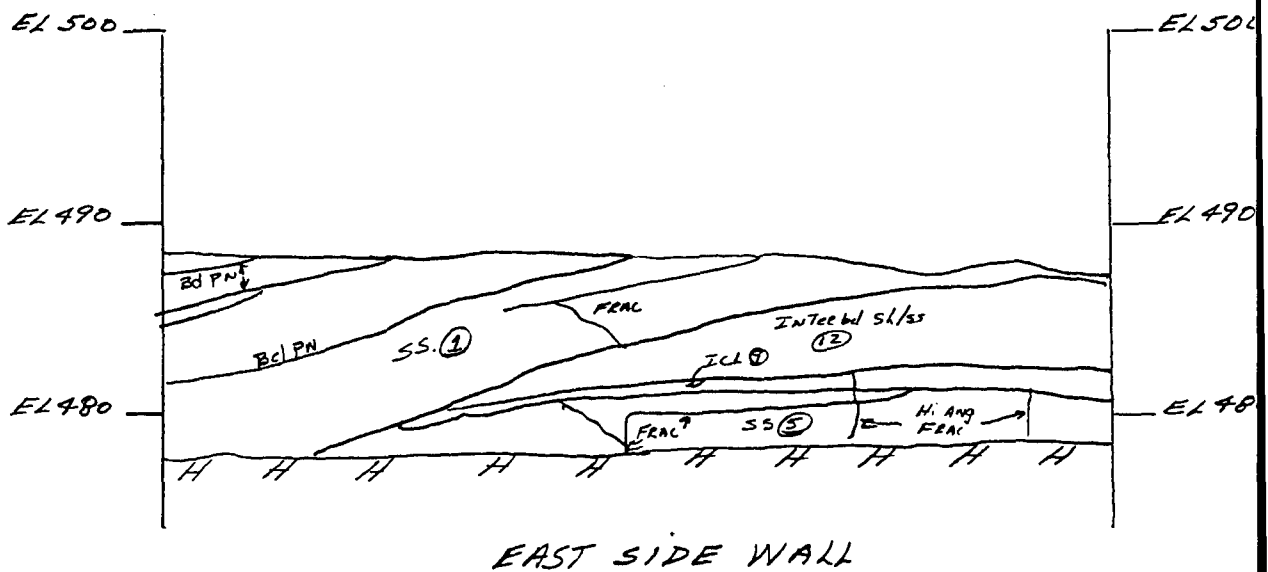
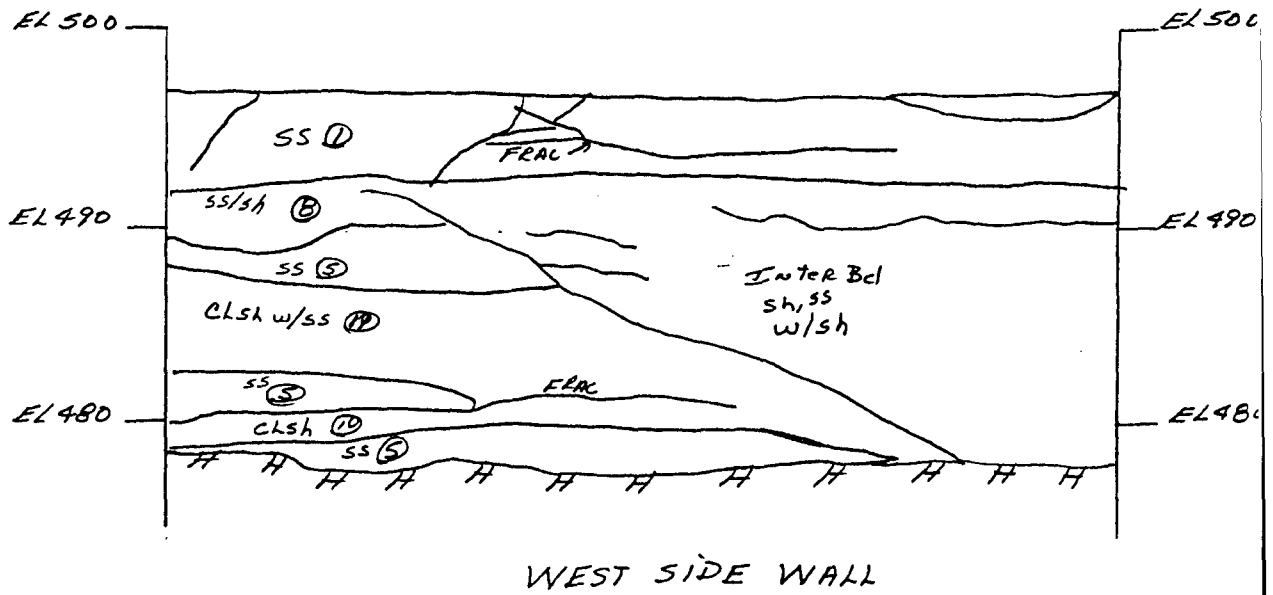
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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 38



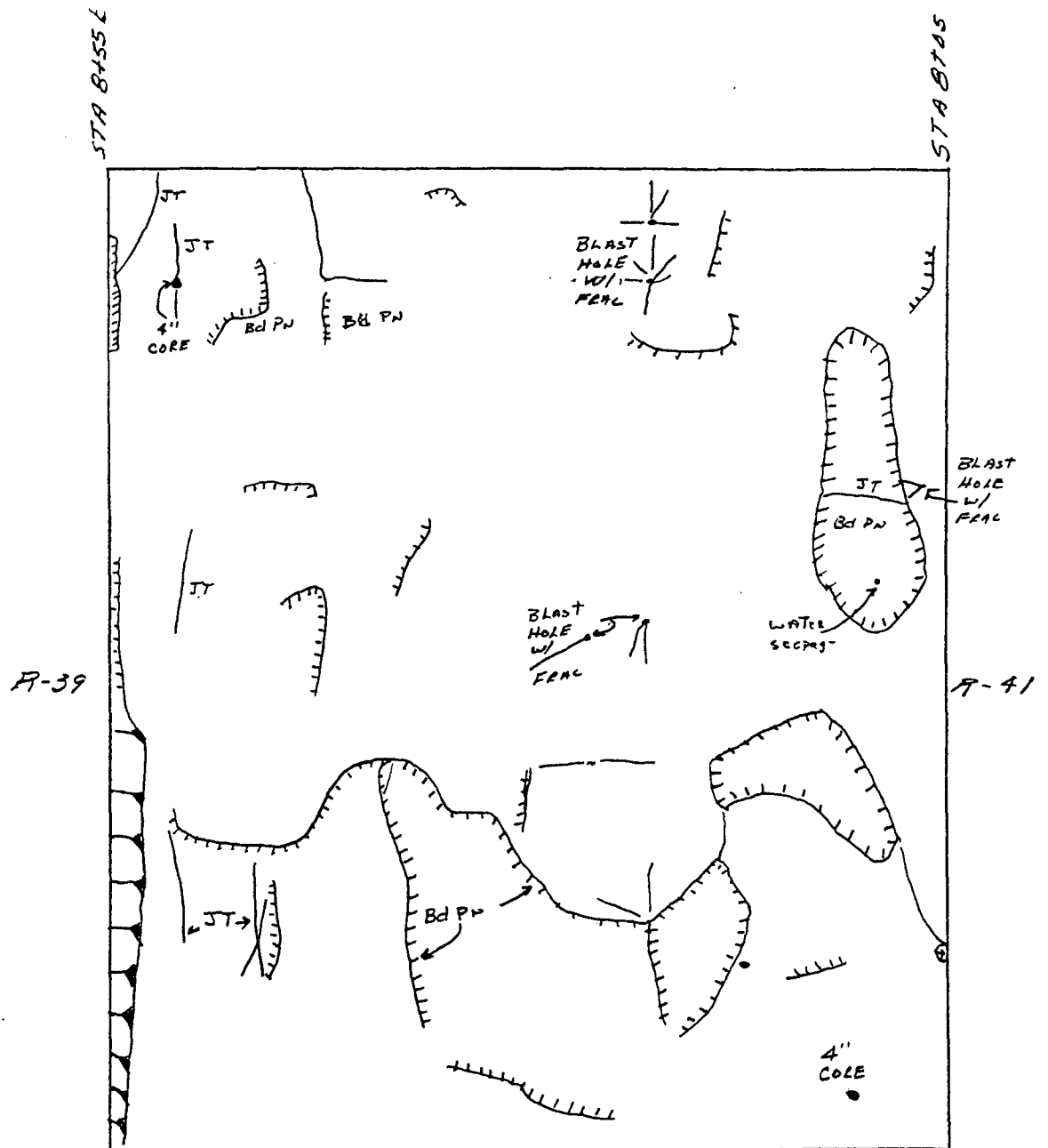
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Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 39



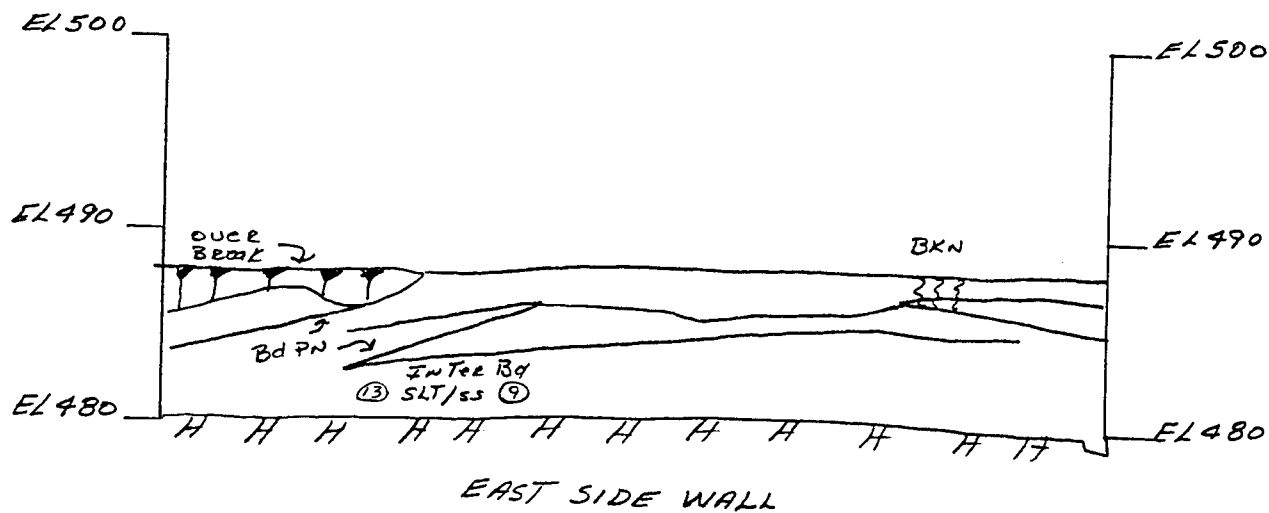
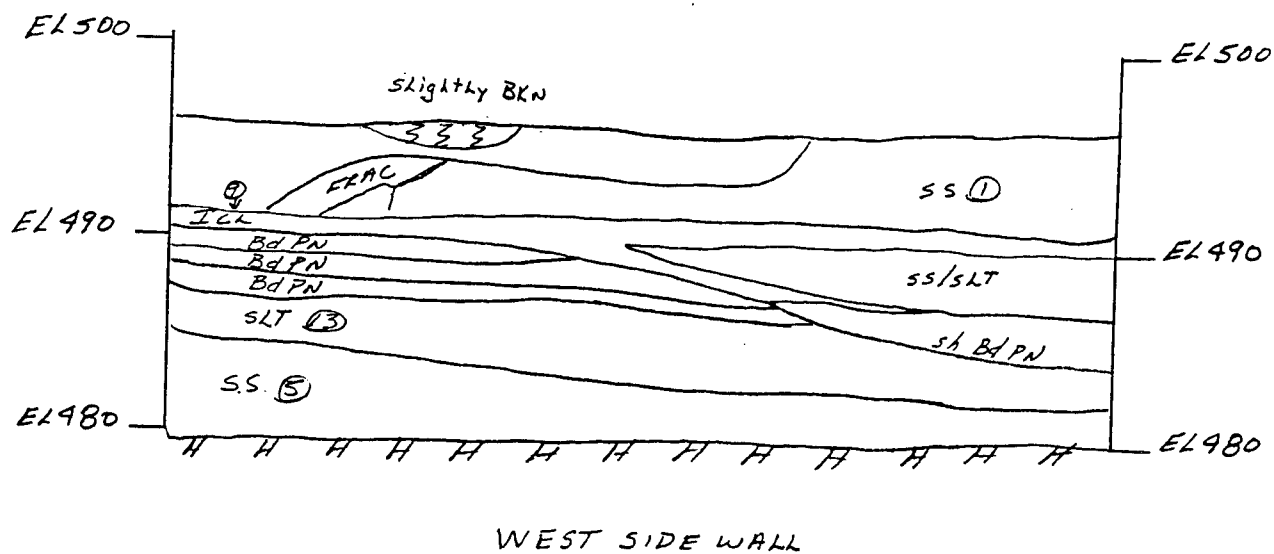
U.S. Army Corps of Engineer

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 39



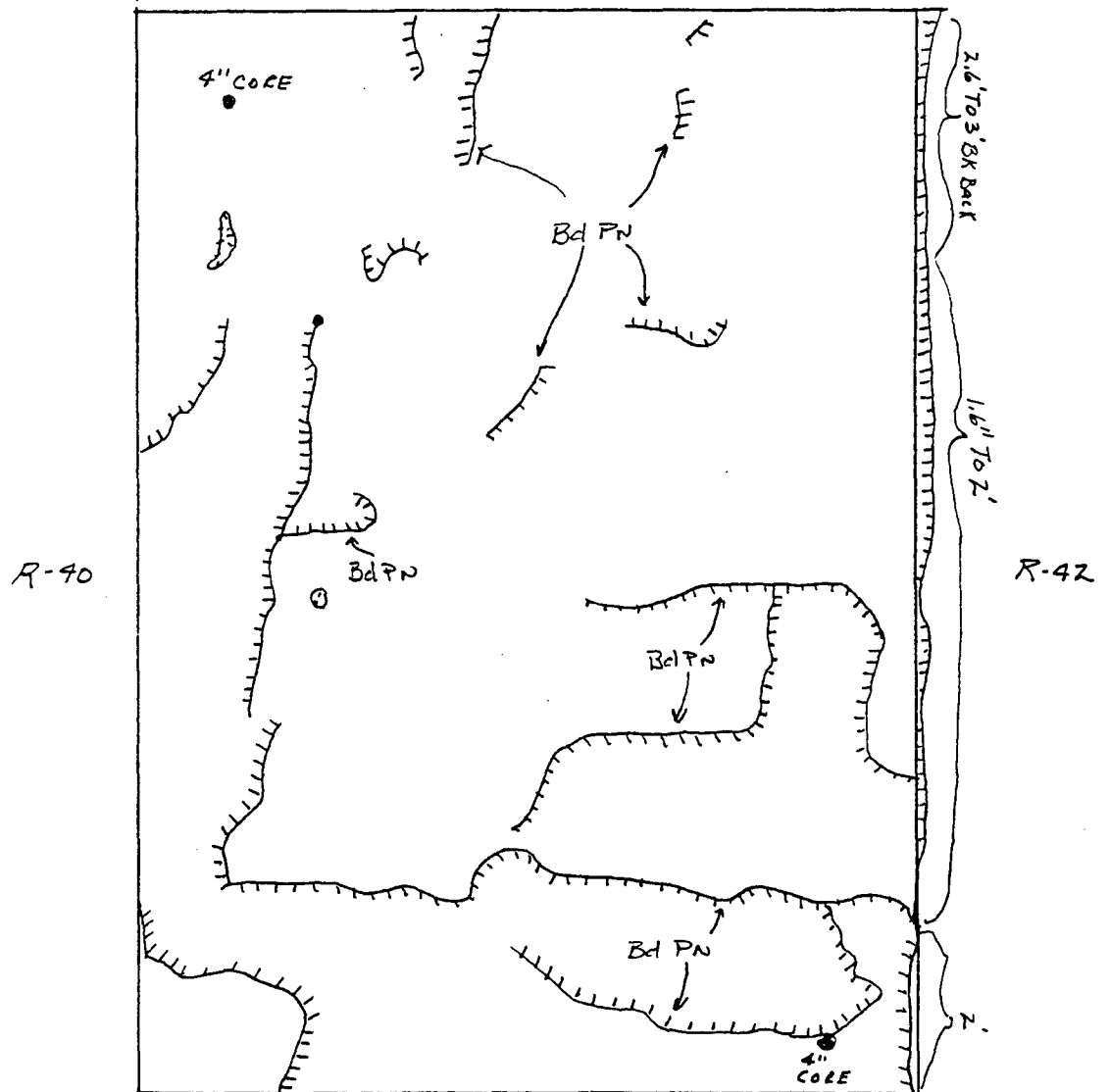
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 40



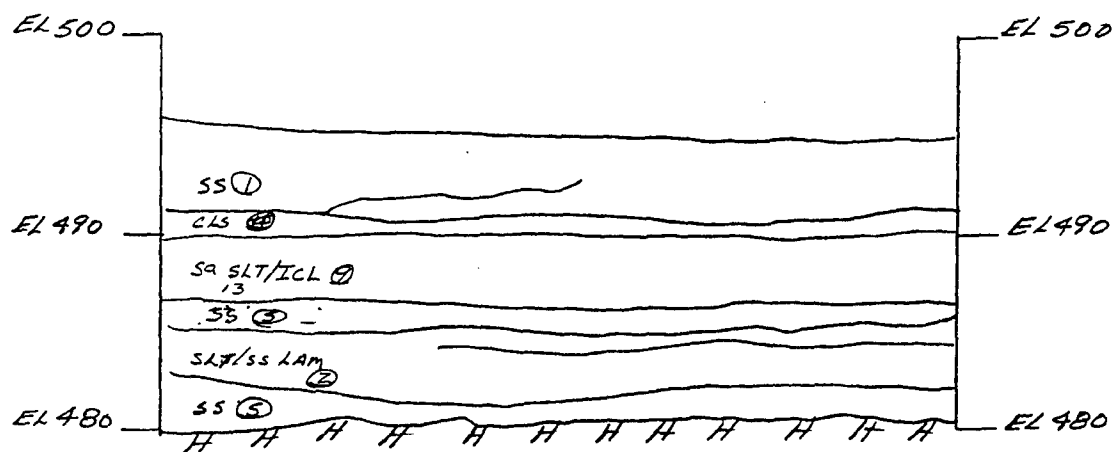
STA 8405B

STA 7+63B

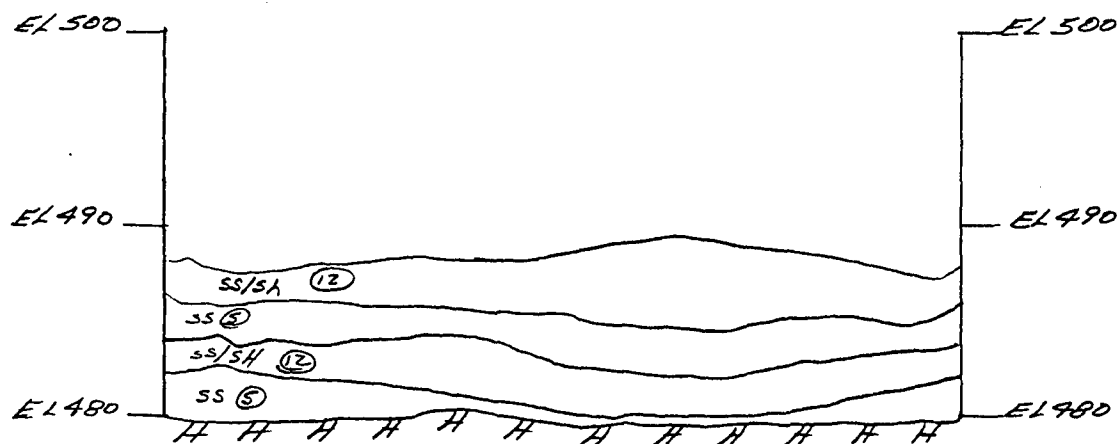


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 41

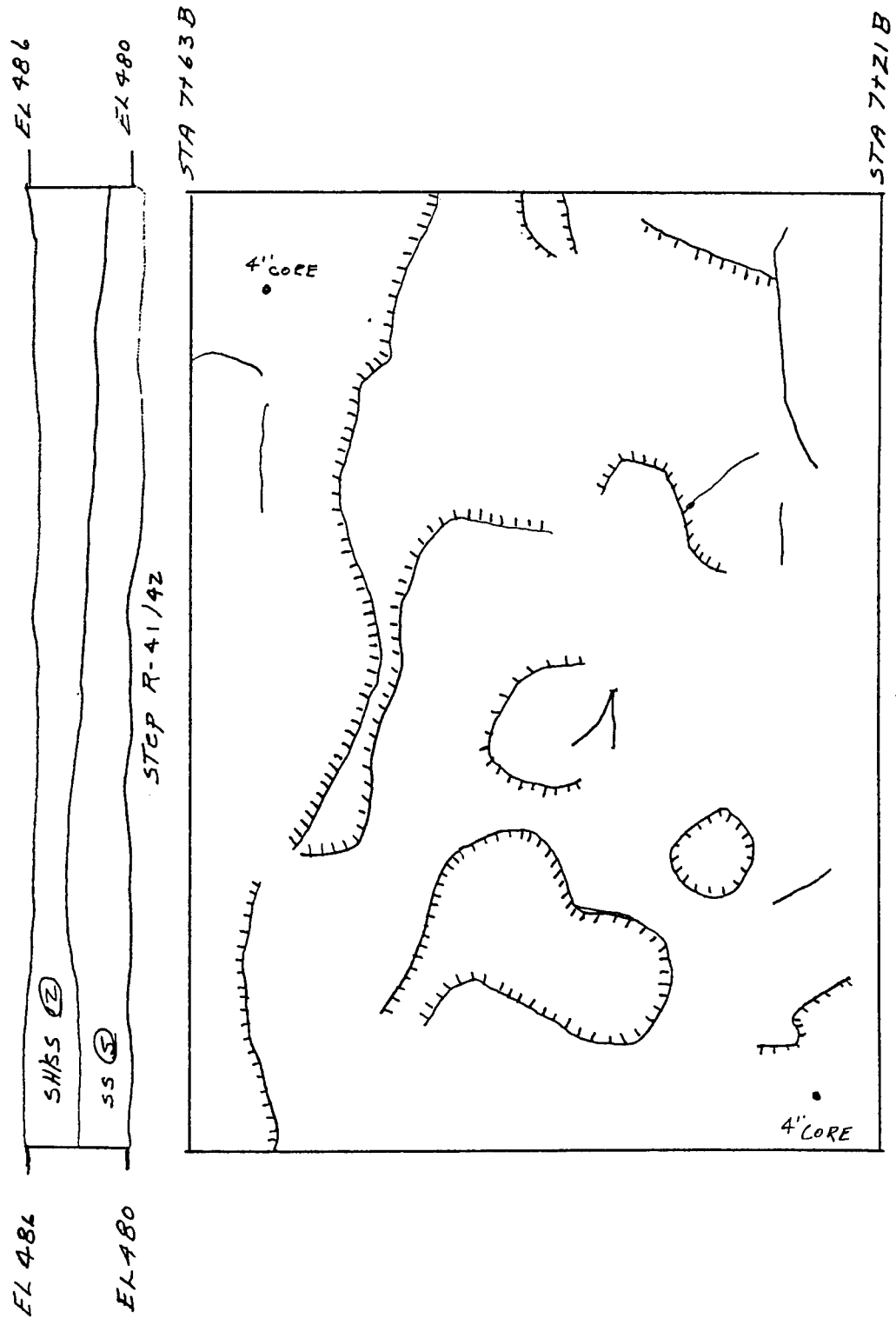


WEST SIDE WALL



EAST SIDE WALL

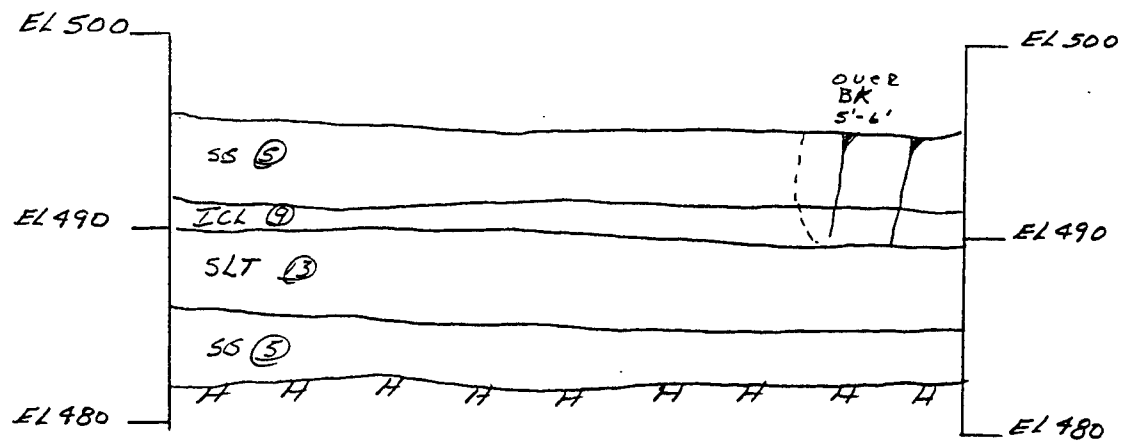




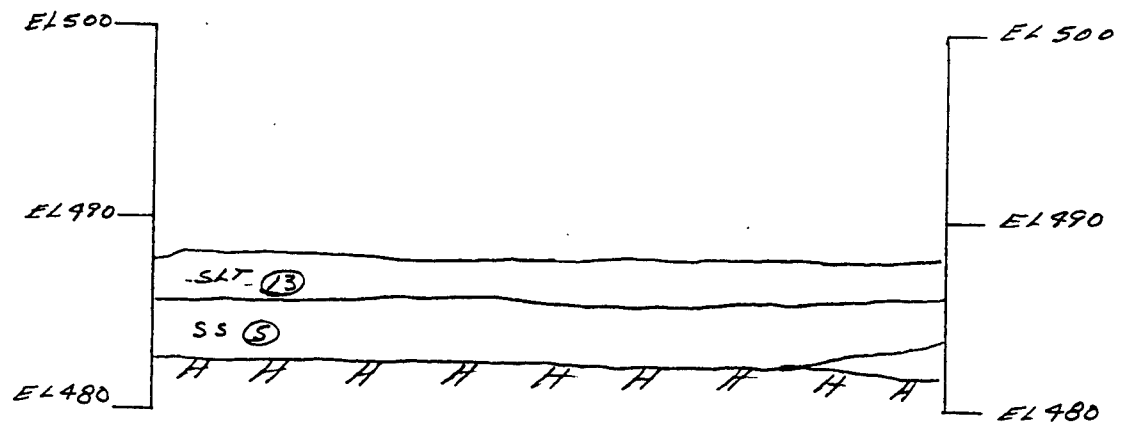
R-43

U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 42



WEST SIDE WALL



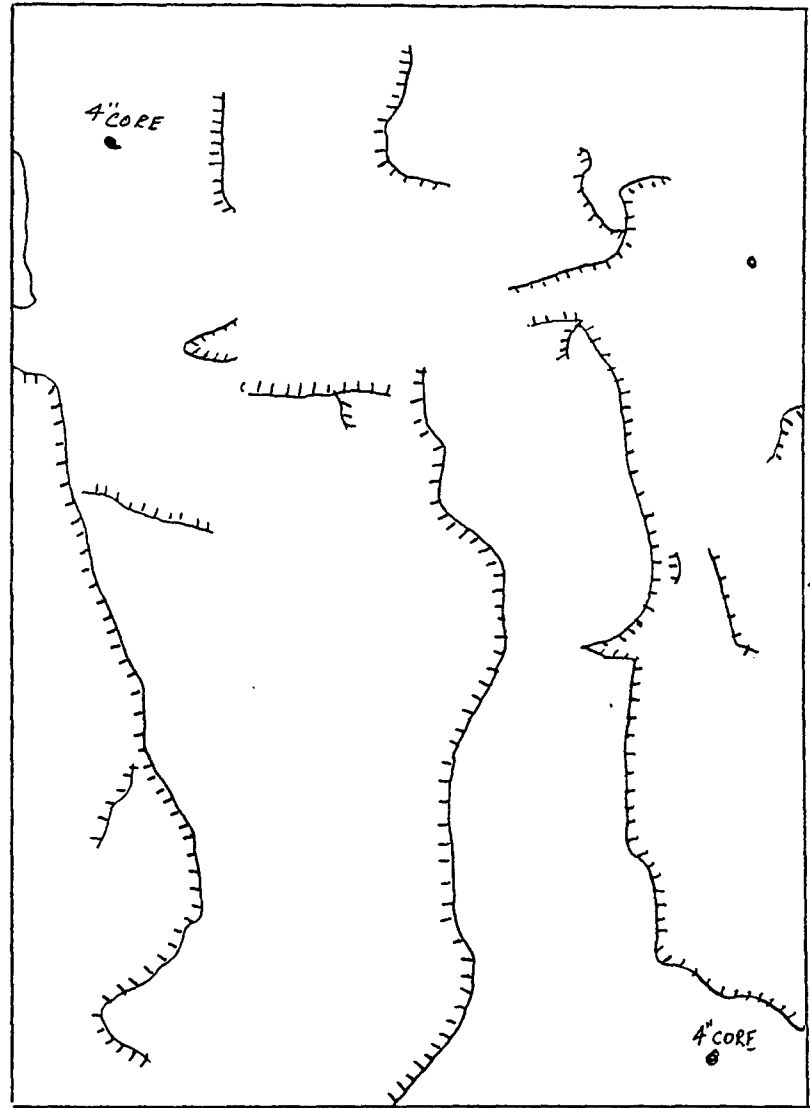
EAST SIDE WALL

STA 74.21B

STA 6479

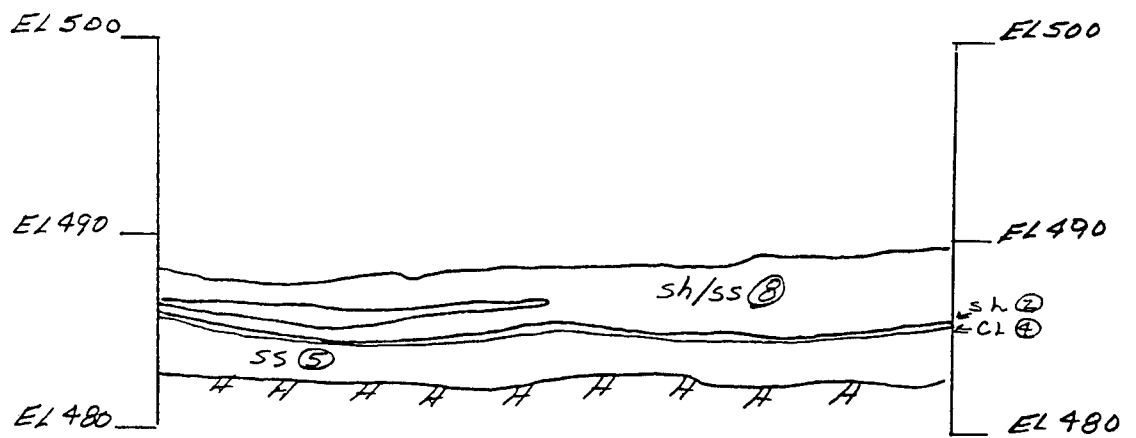
R-42

R-44

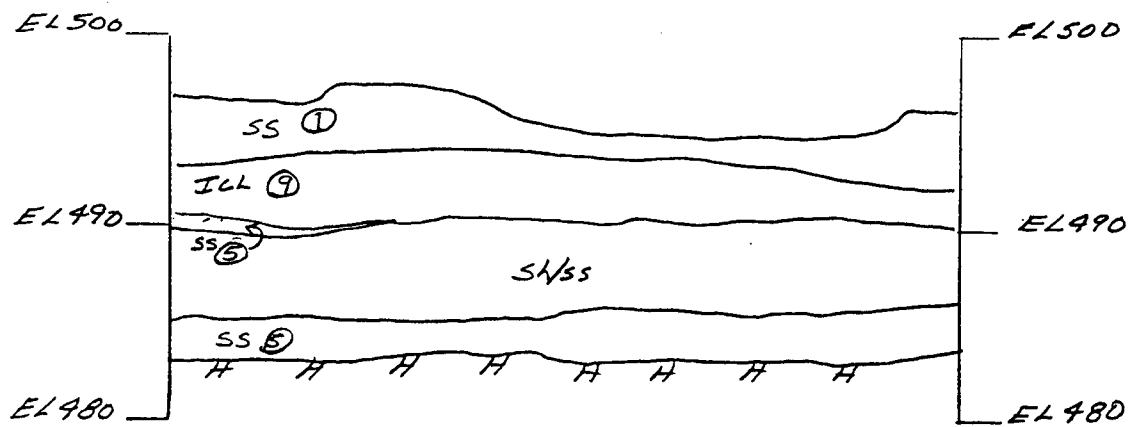


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 43



WEST SIDE WALL



EAST SIDE WALL

U.S. Army Corps of Engineers

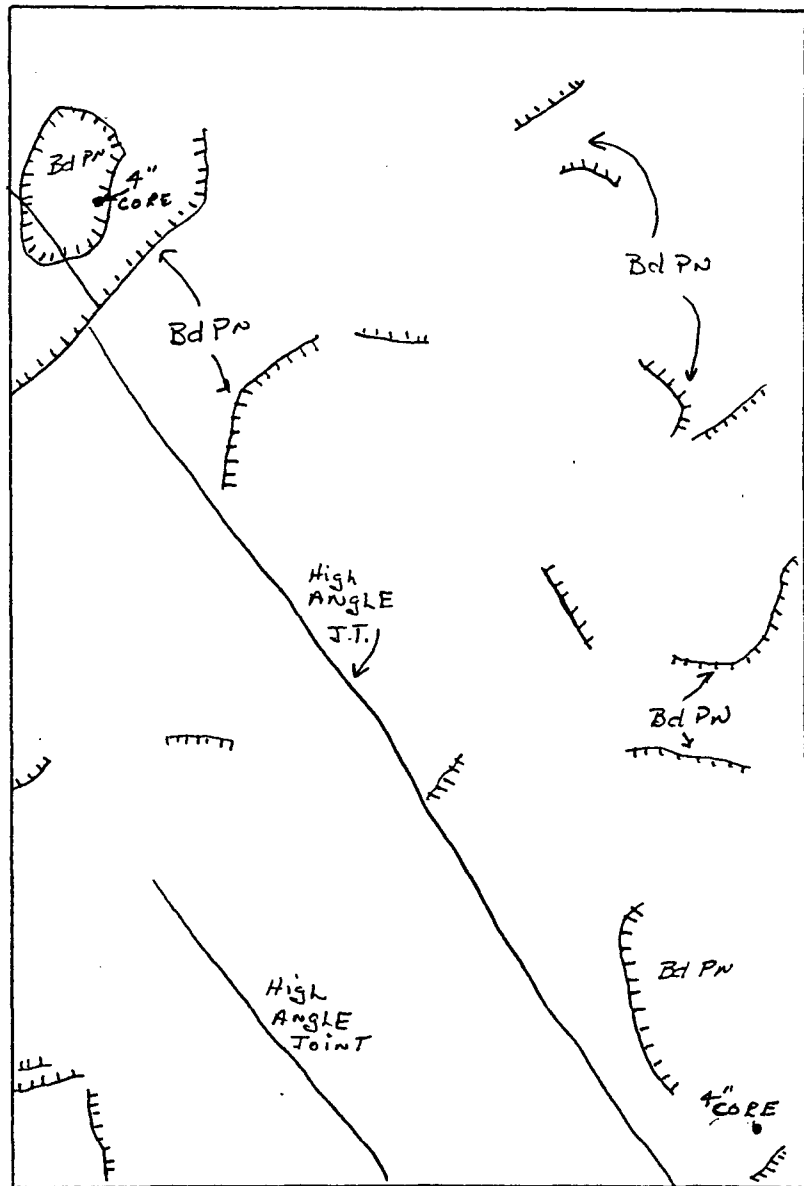
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 43

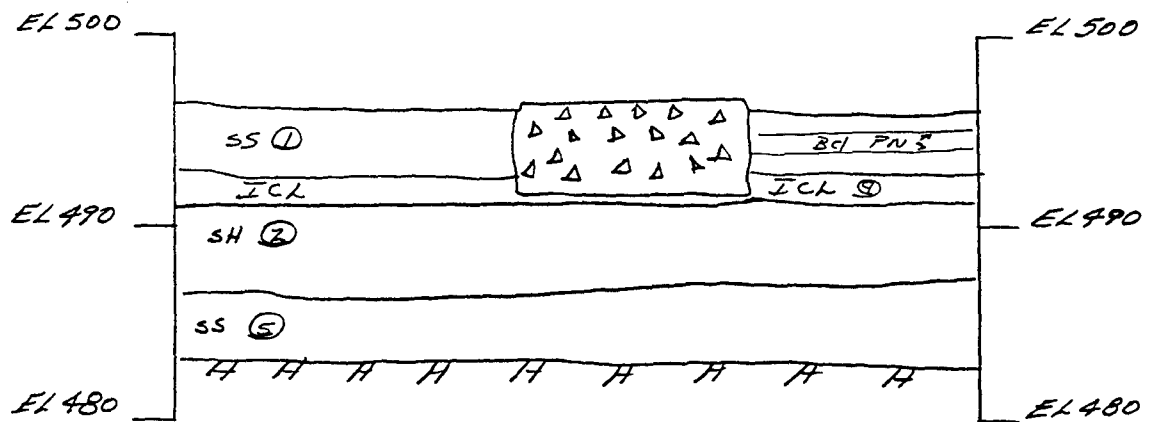
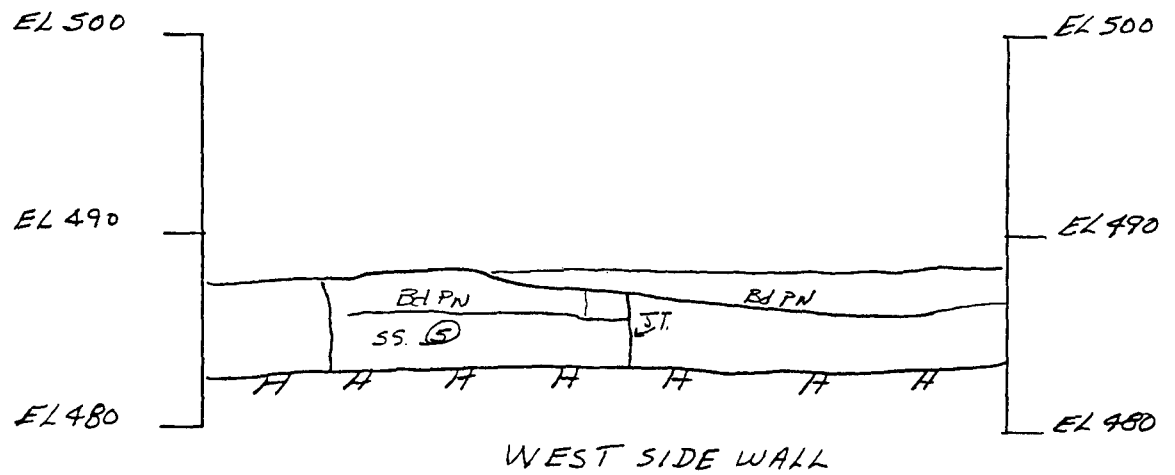
STA 6+79

STA 6+43

R-43

R-45





U.S. Army Corps of Engineers

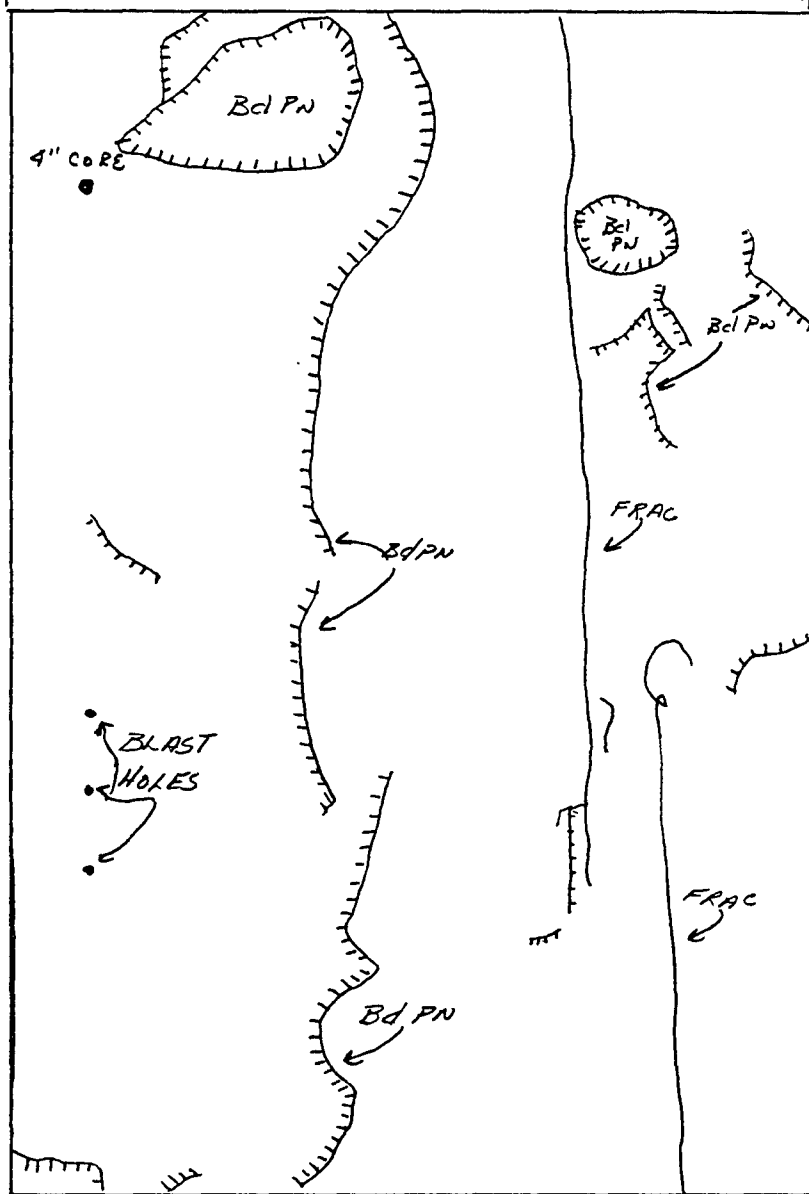
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 44

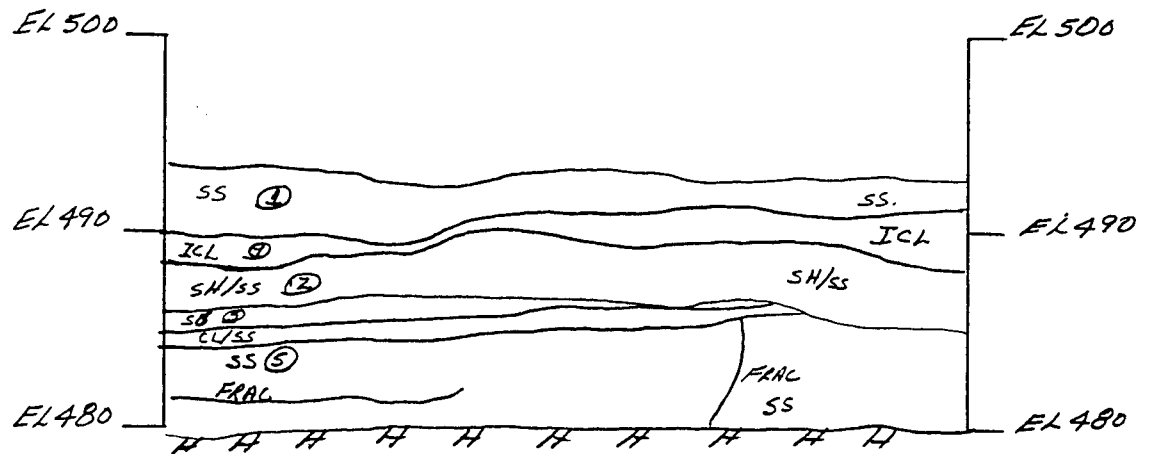
STA 6+378

STA 5+958

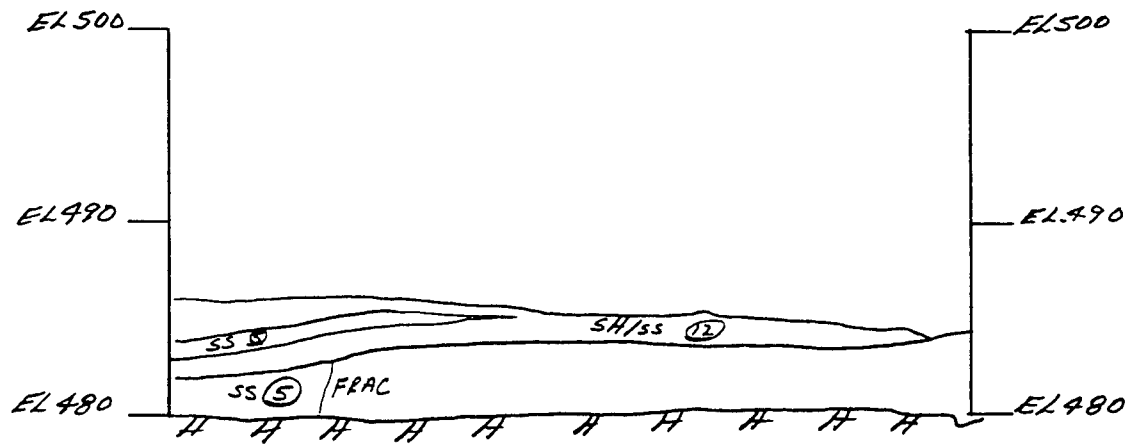
R-44

R-46





WEST SIDE WALL

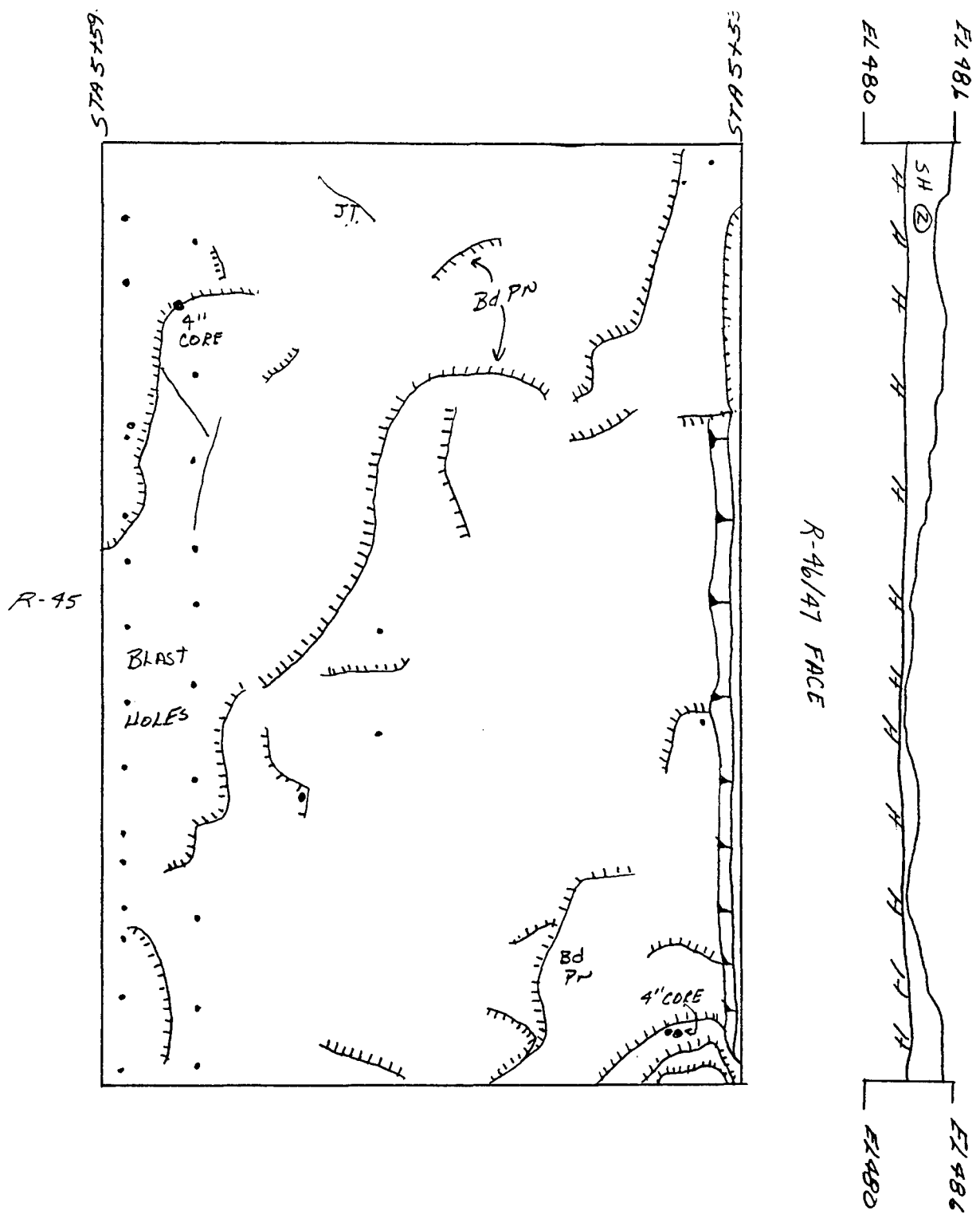


EAST SIDE WALL

U.S. Army Corps of Engineers

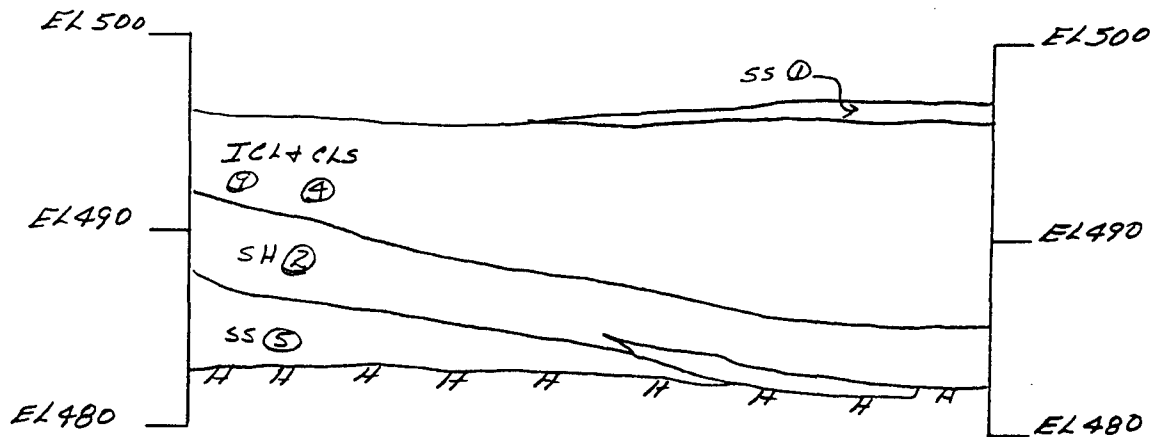
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 45



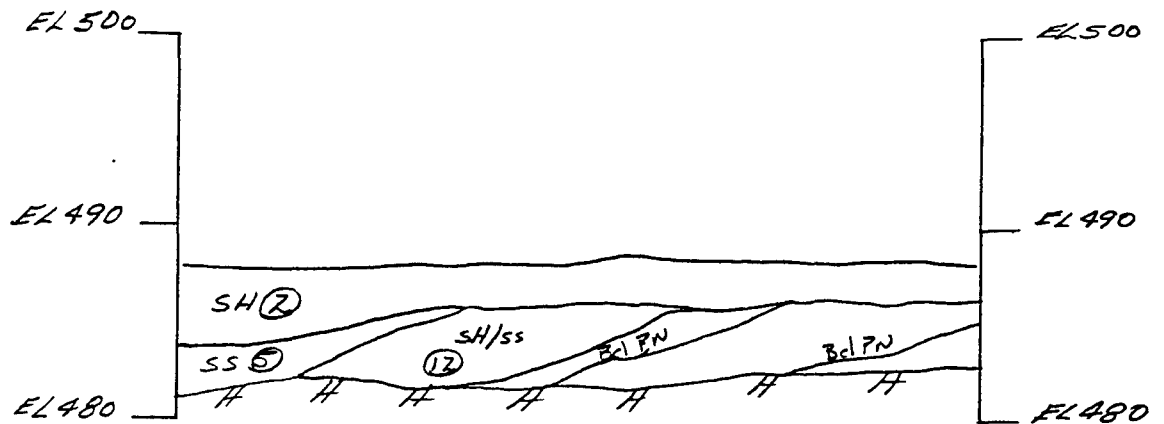


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation drawing  
 River Wall Monolith 46



WEST SIDE WALL



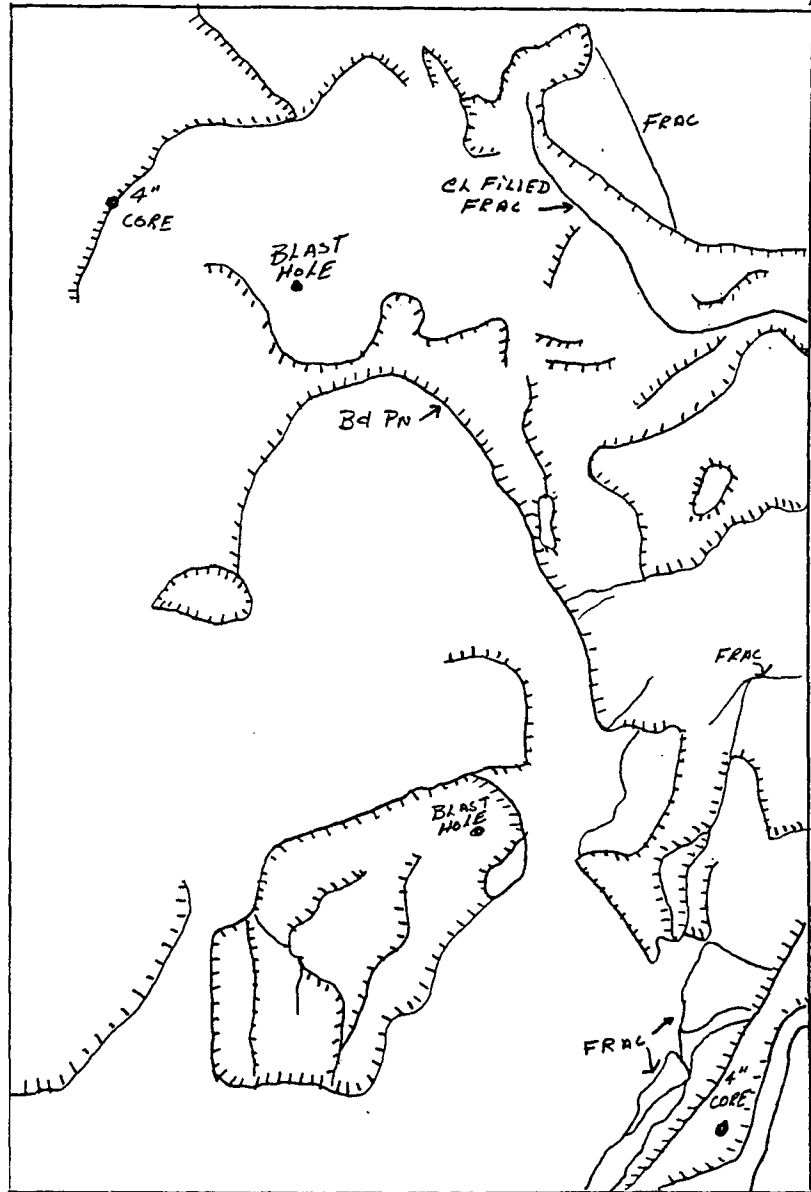
EAST SIDE WALL

STA 5453'

STA 5411'

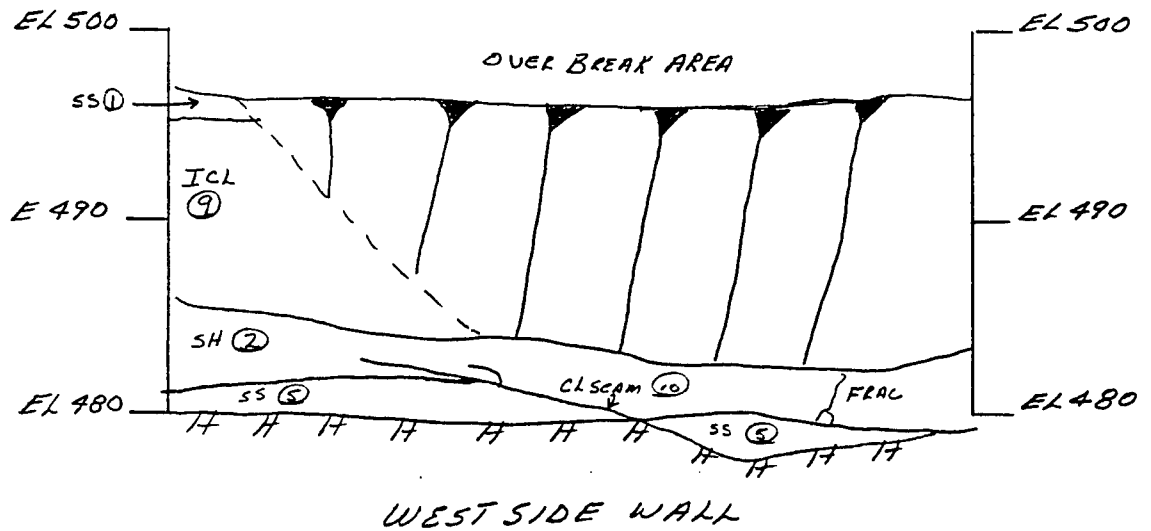
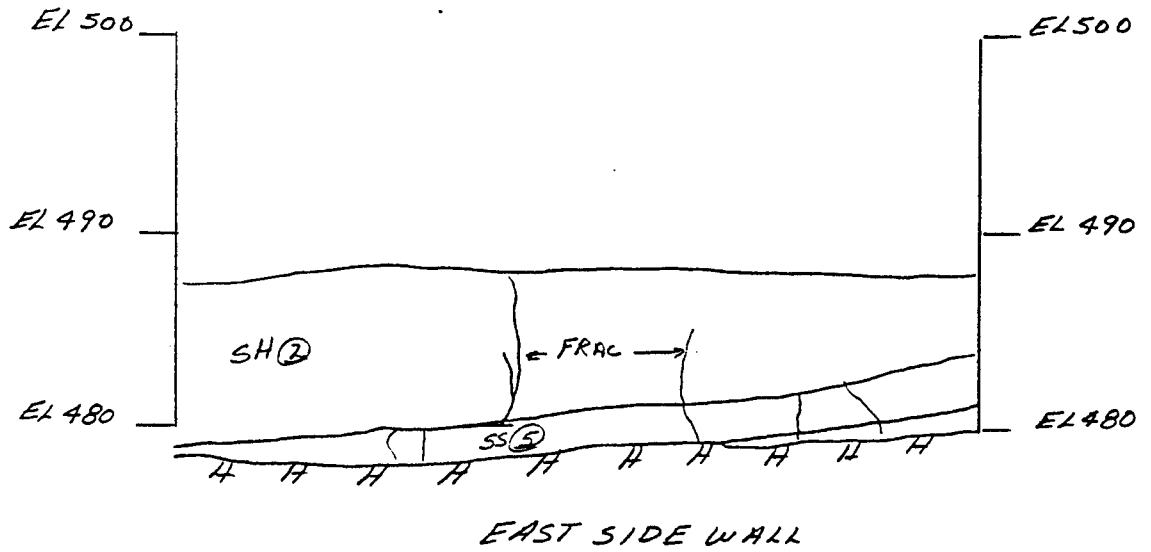
R-46

R-48



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 47



U.S. Army Corps of Engineers

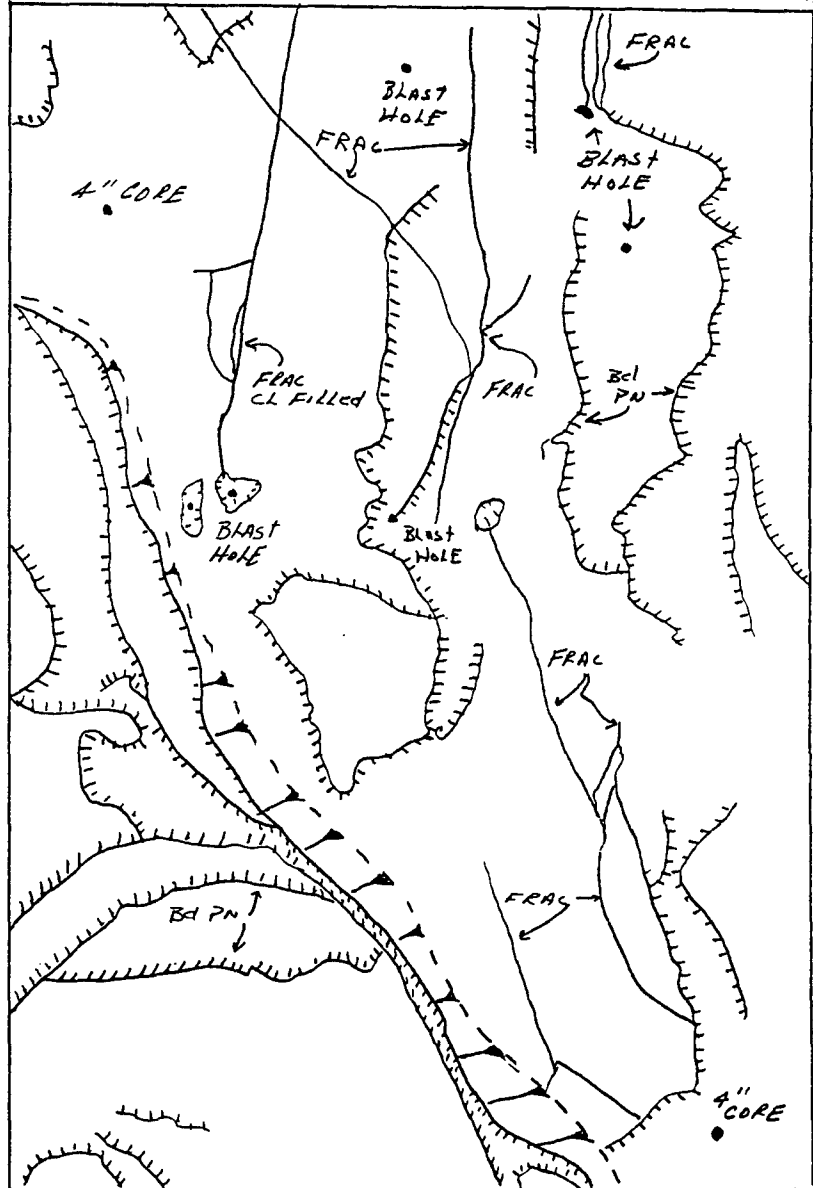
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 47

STA 5411B

STA 4469B

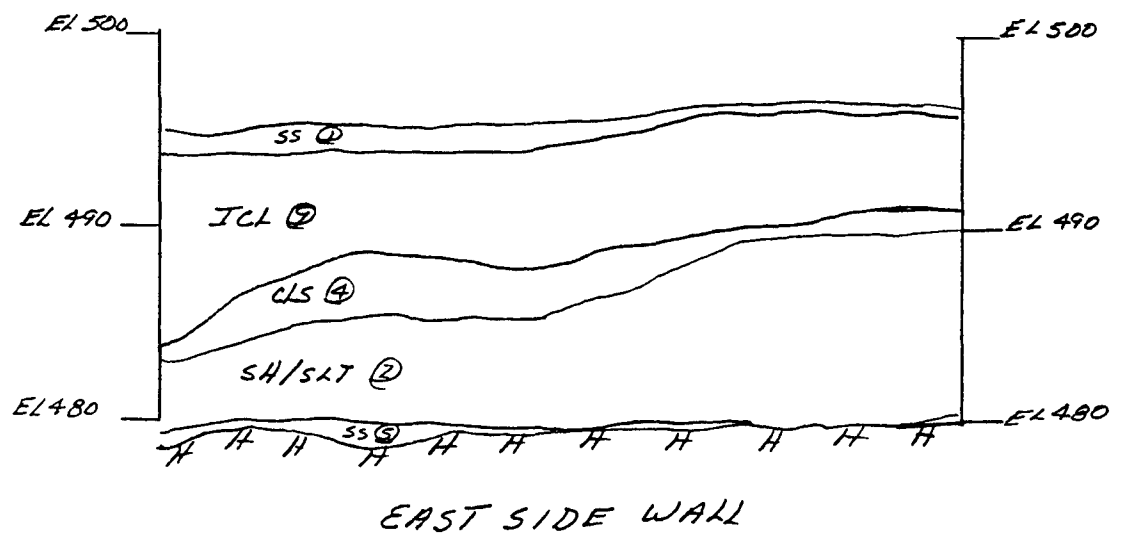
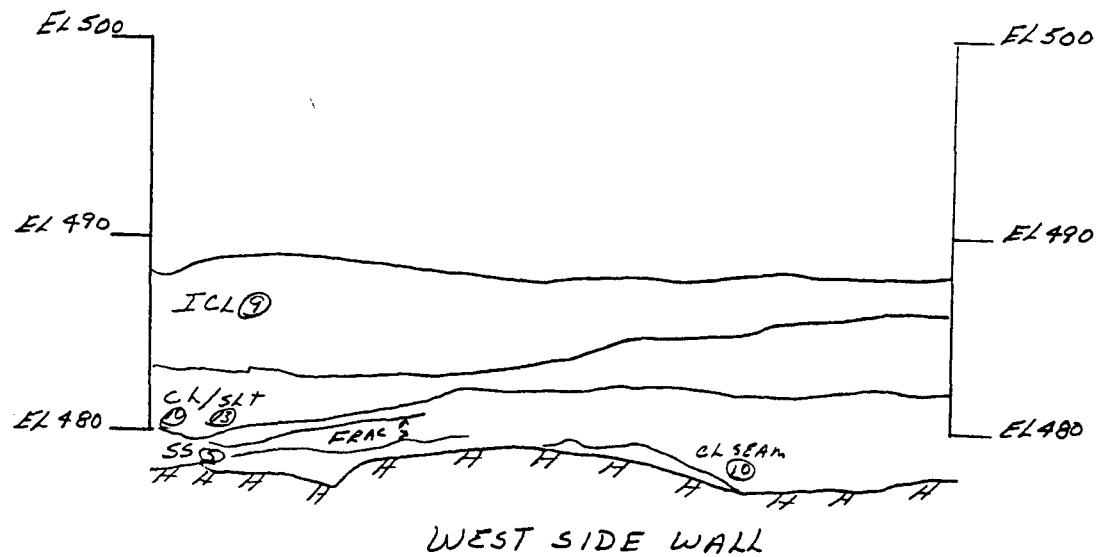
R-47

R-49



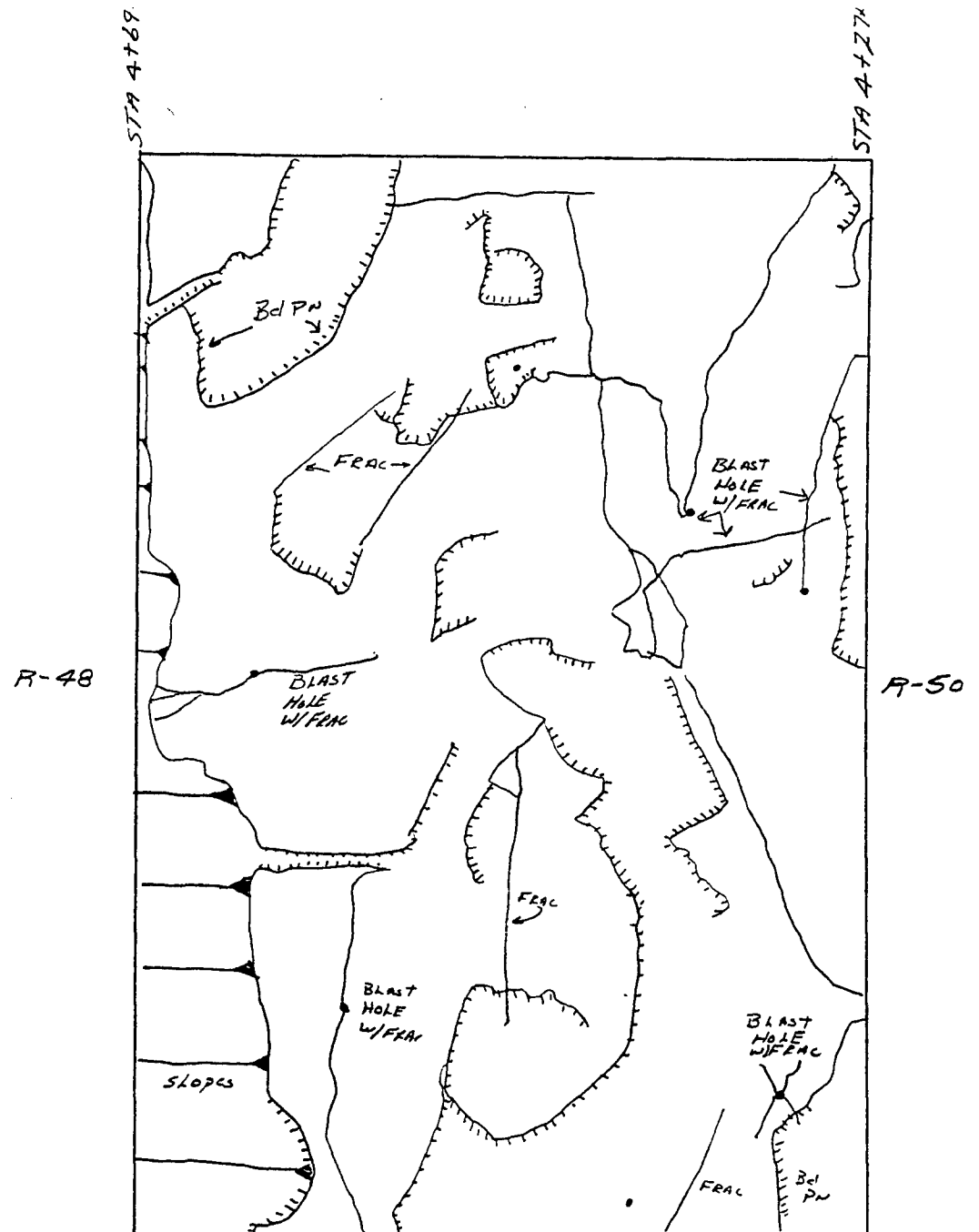
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 48



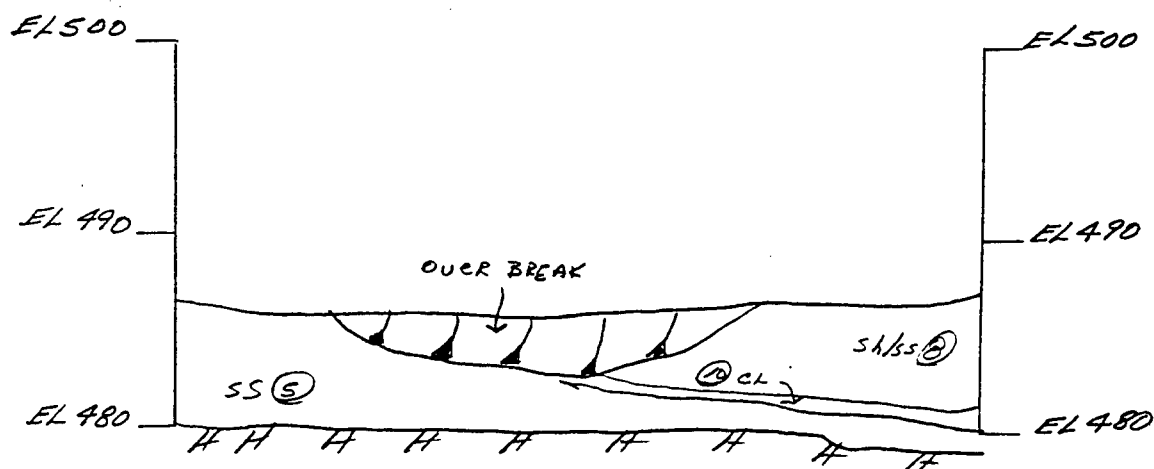
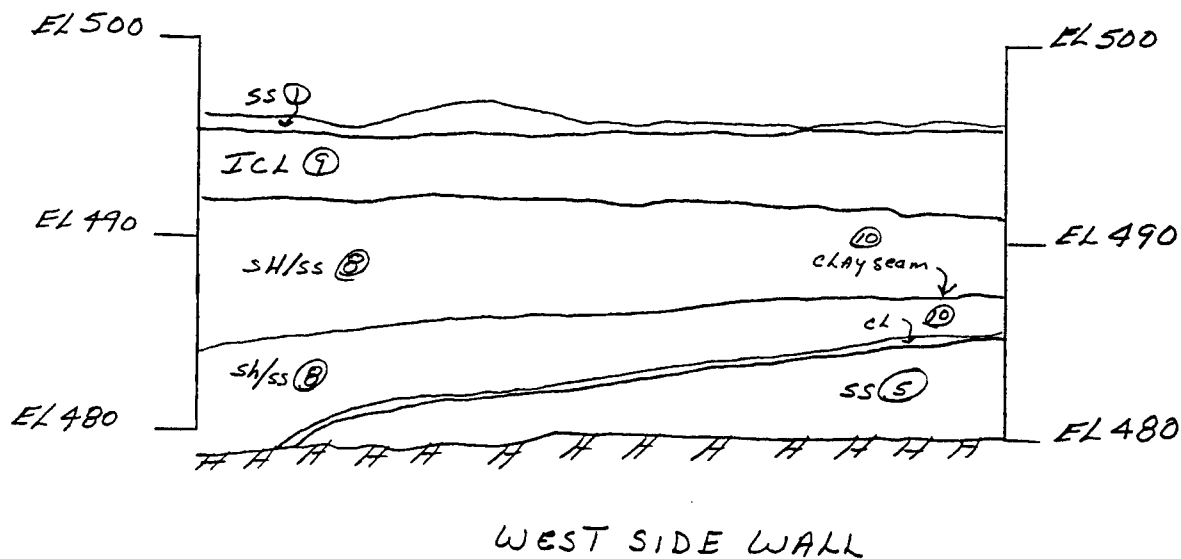
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 48



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 49



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 49

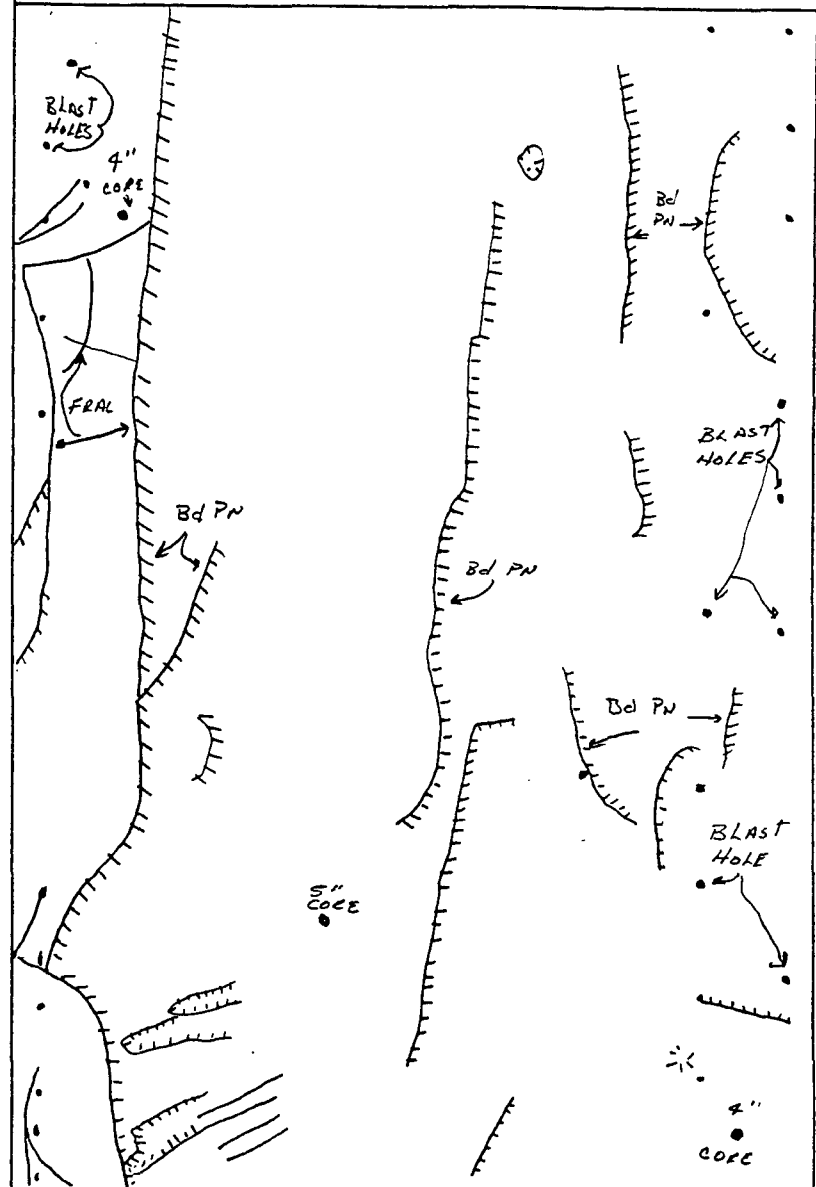


STA 41271

STA 3+85B

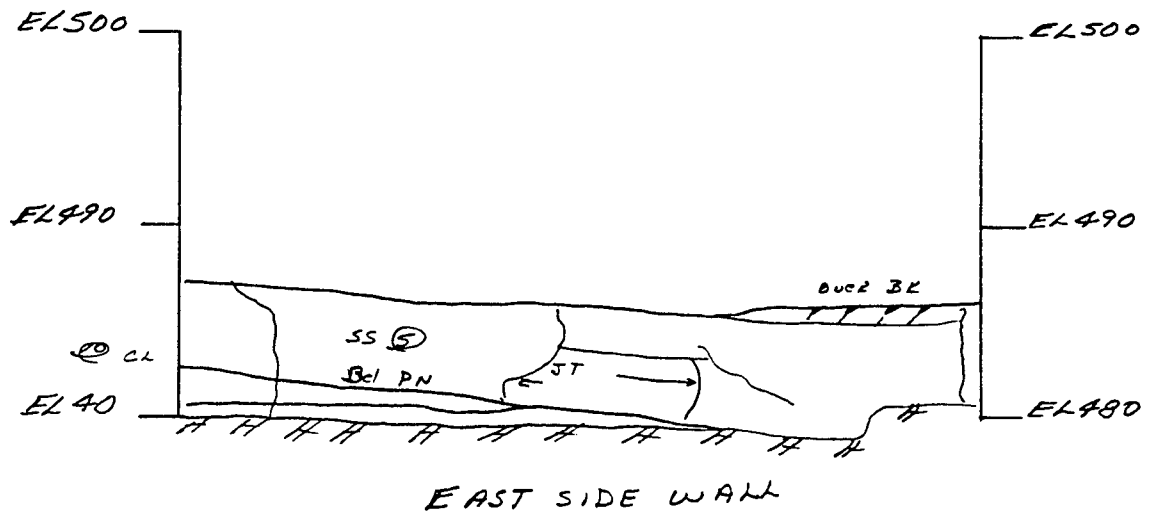
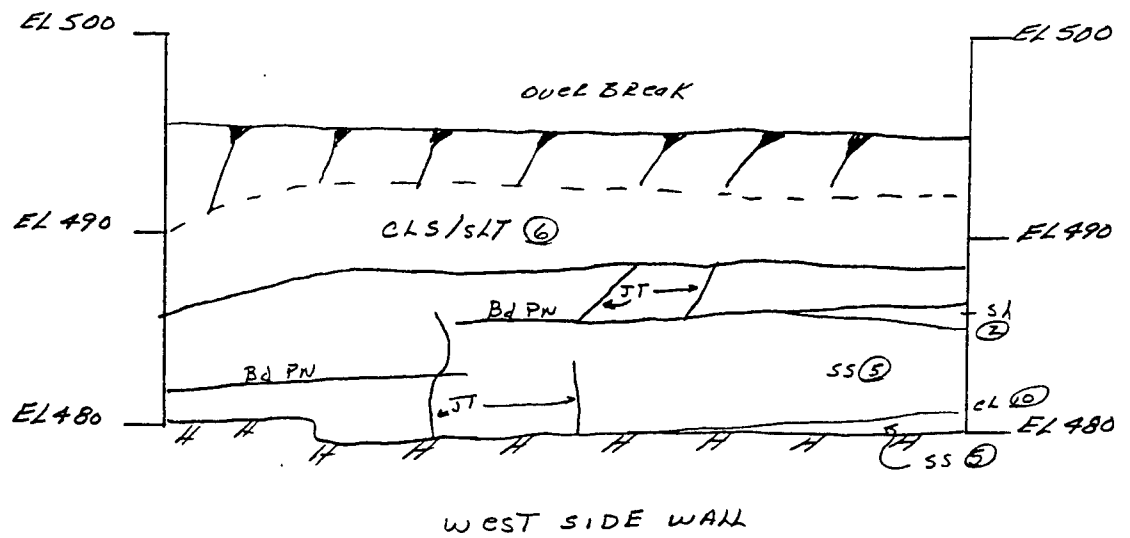
R-49

R-51



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 50

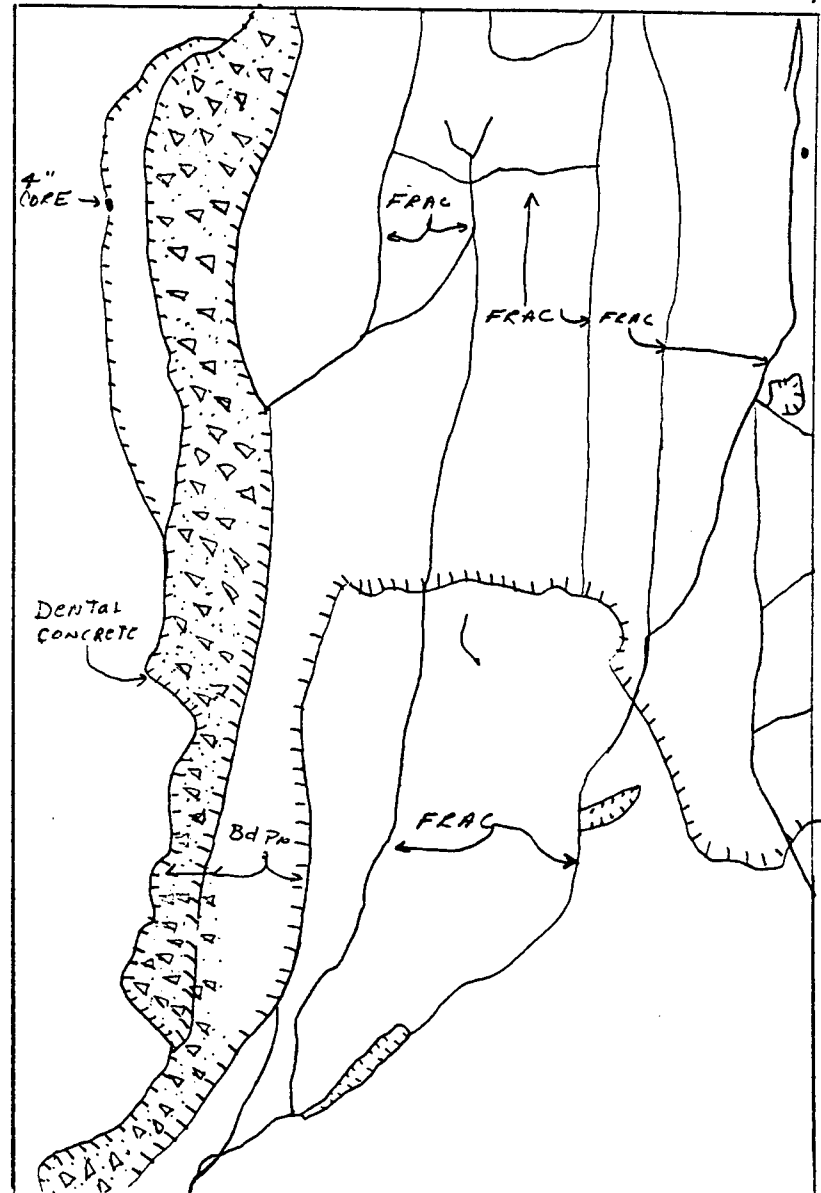


STA 376

STA 374

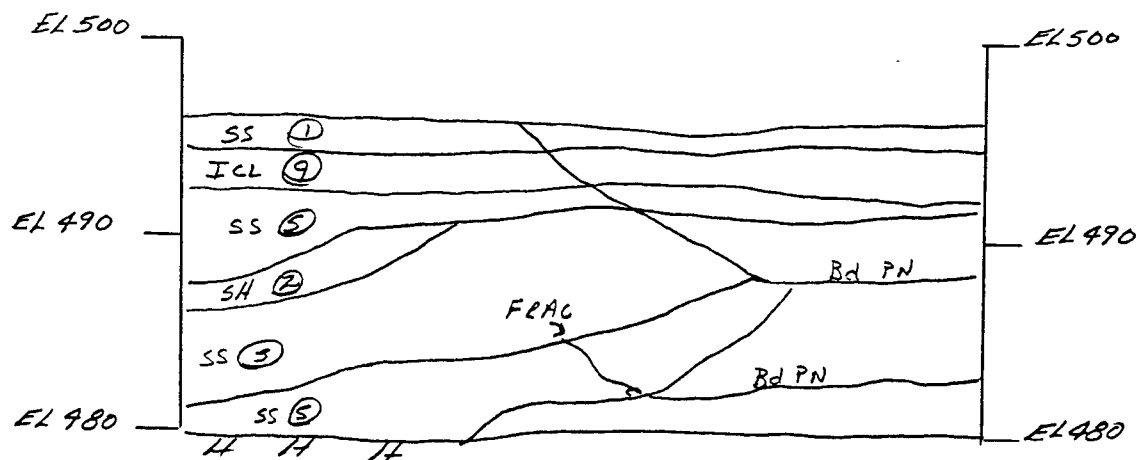
R-50

R-52

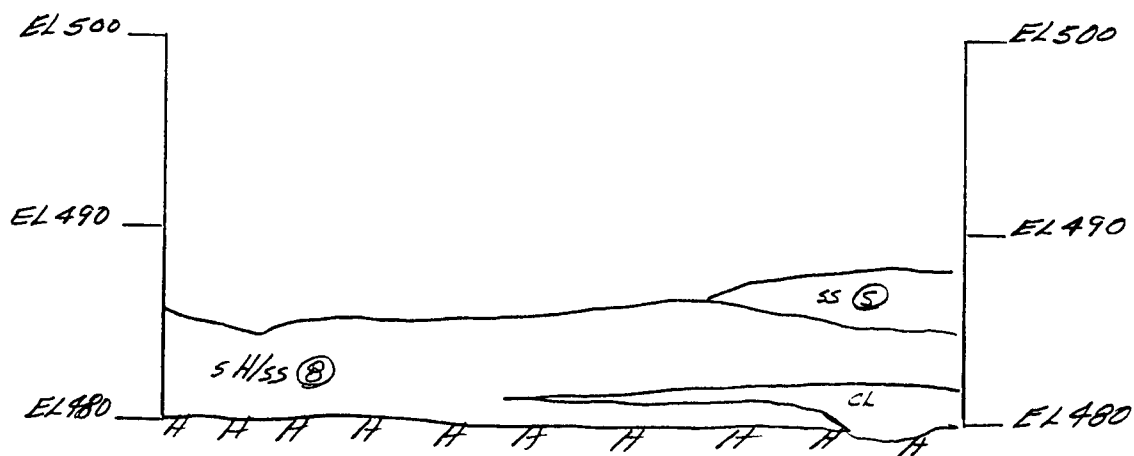


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 51



WEST SIDE WALL



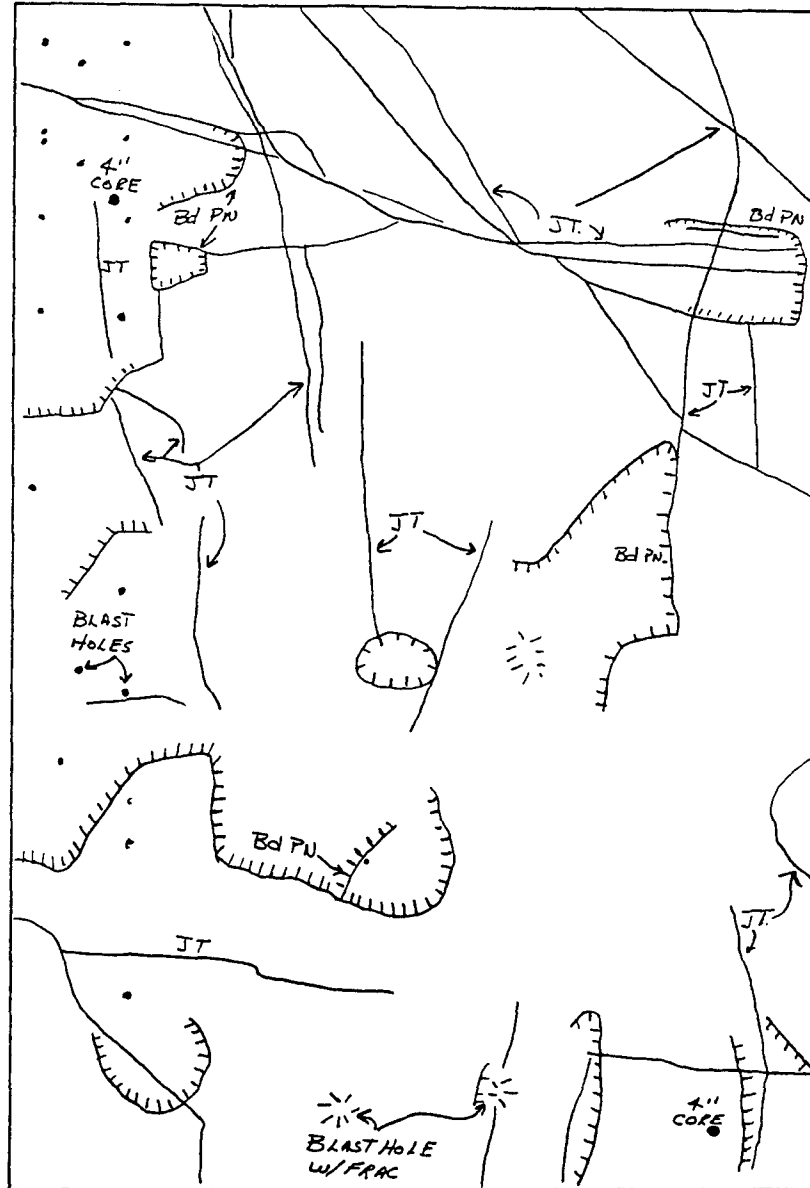
EAST SIDE WALL

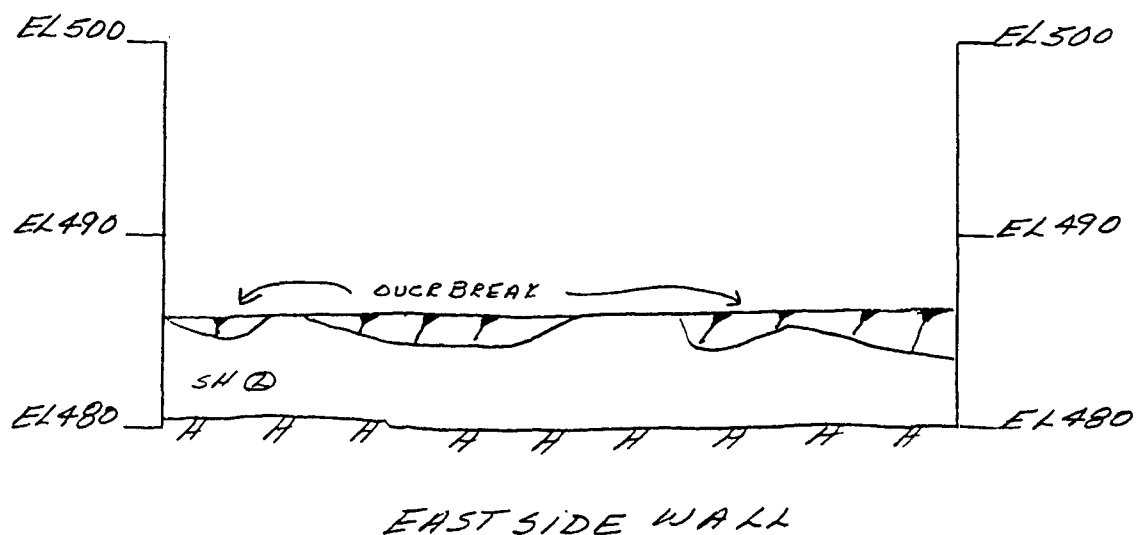
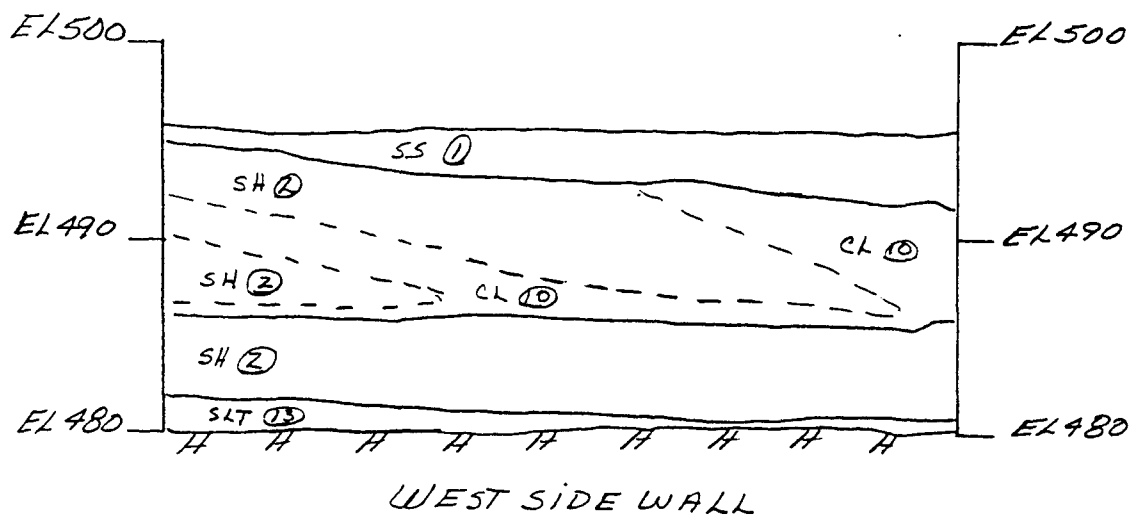
STA 3+43.6

STA 3+01.2

R-51

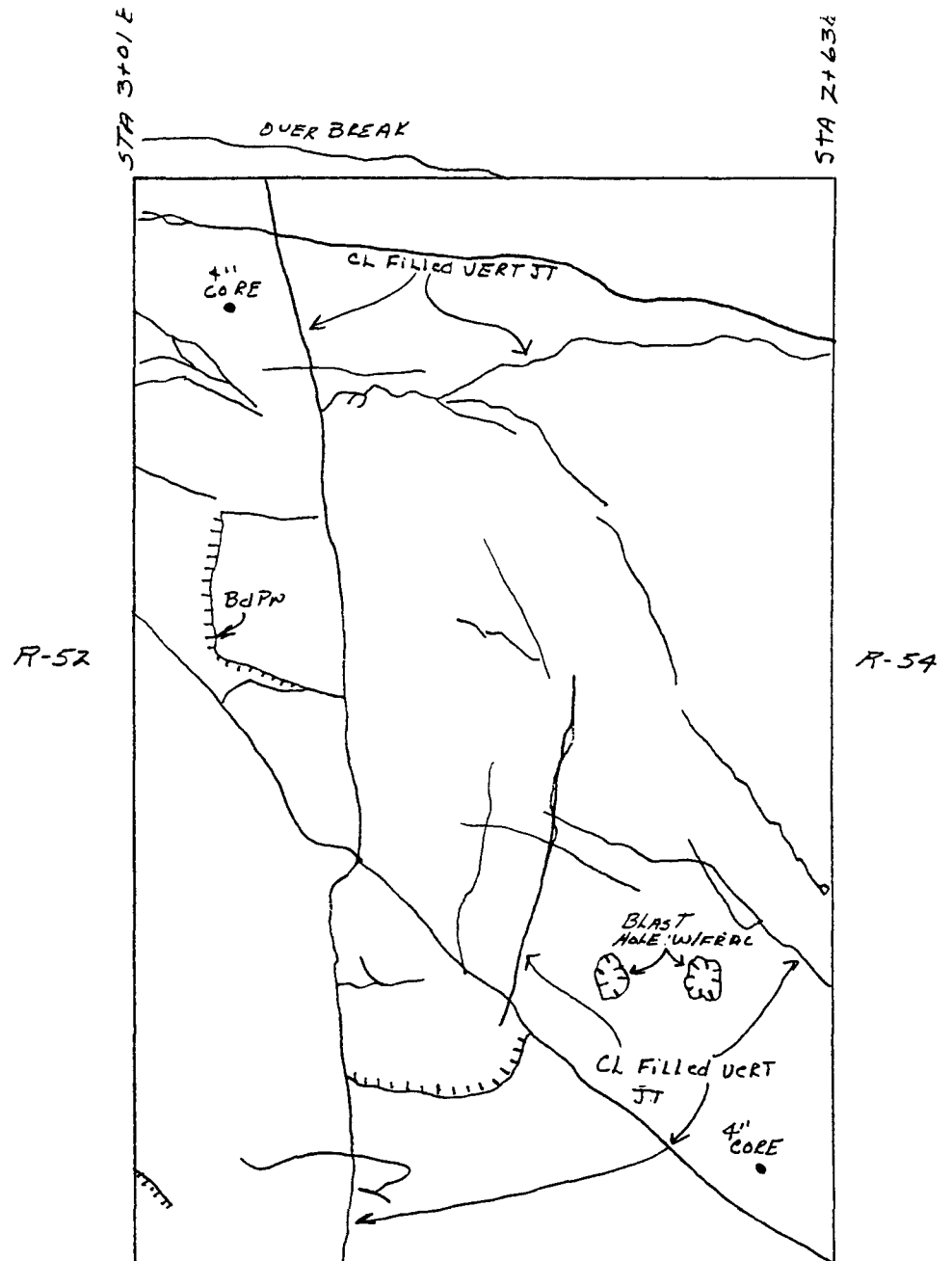
R-53

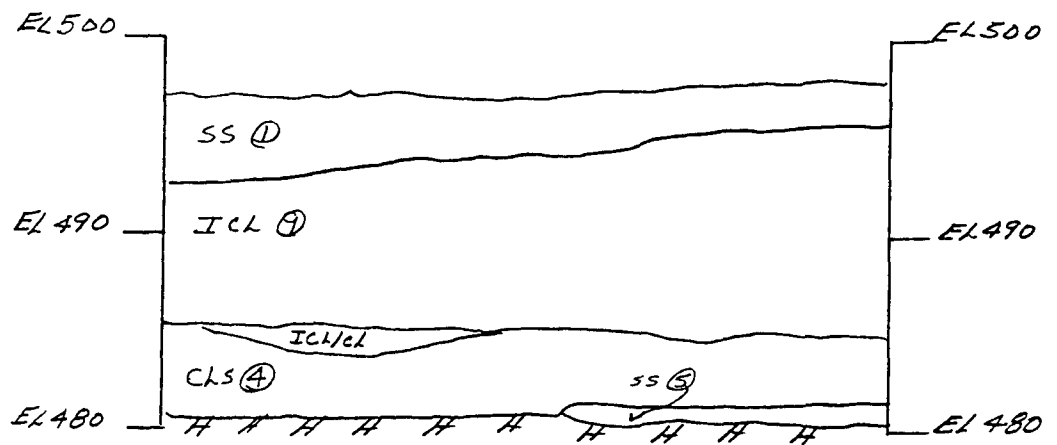




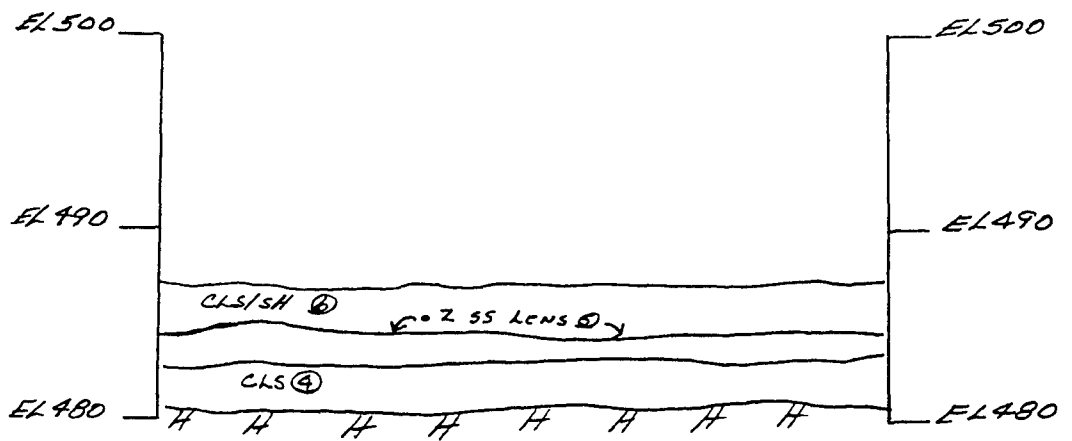
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 52





WEST SIDE WALL



EAST SIDE WALL

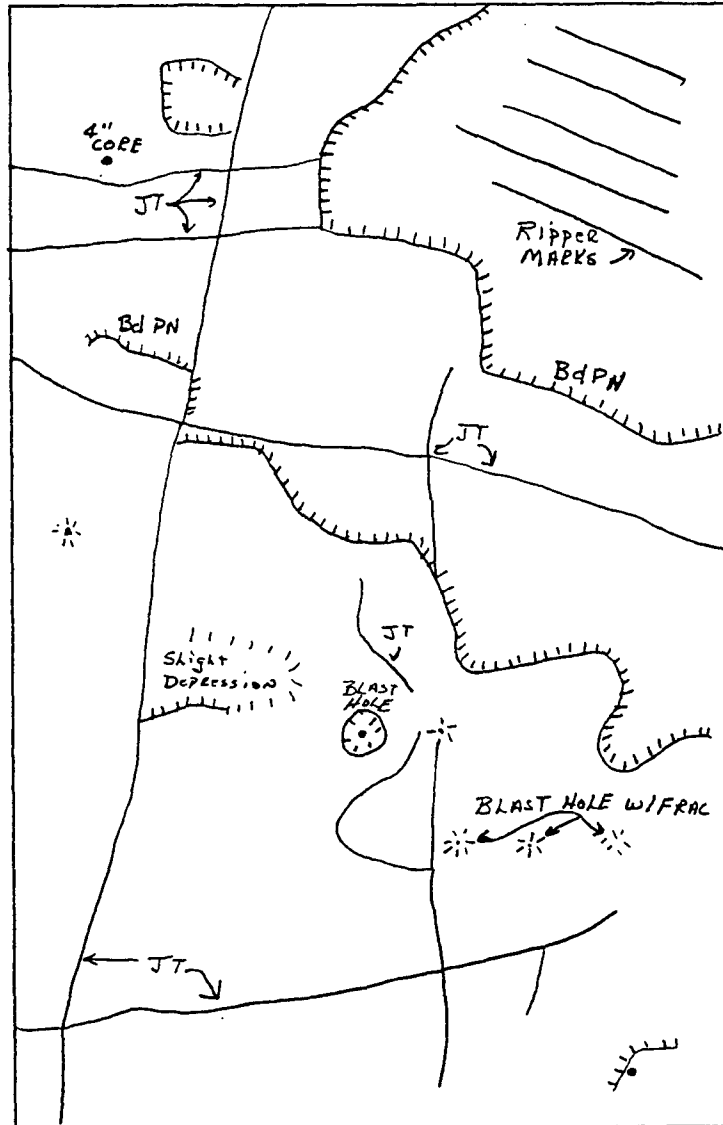


STA 2+63

STA 2+2

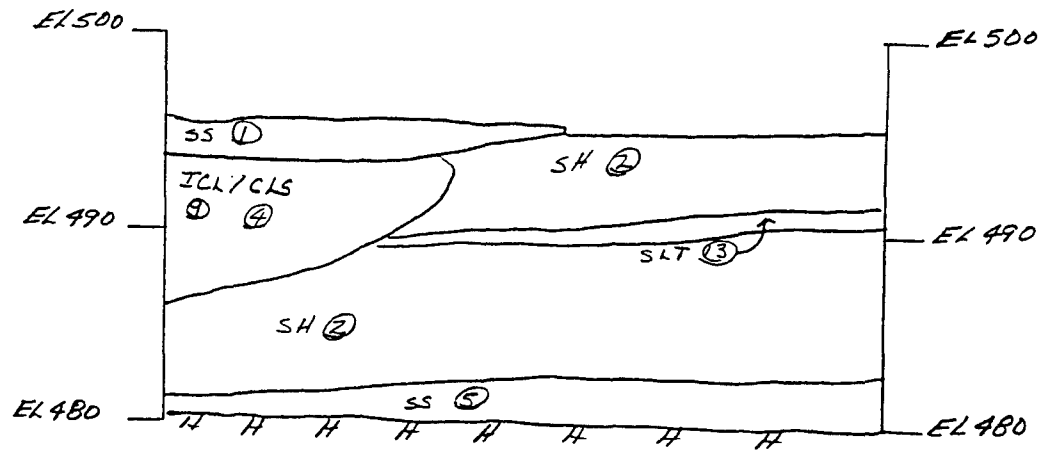
R-53

R-55

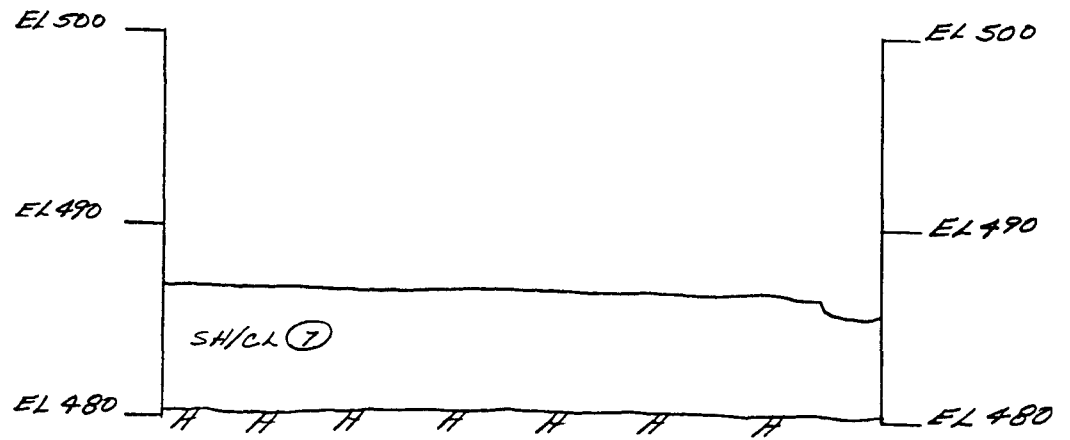


U. S. Army Corps of Engineers

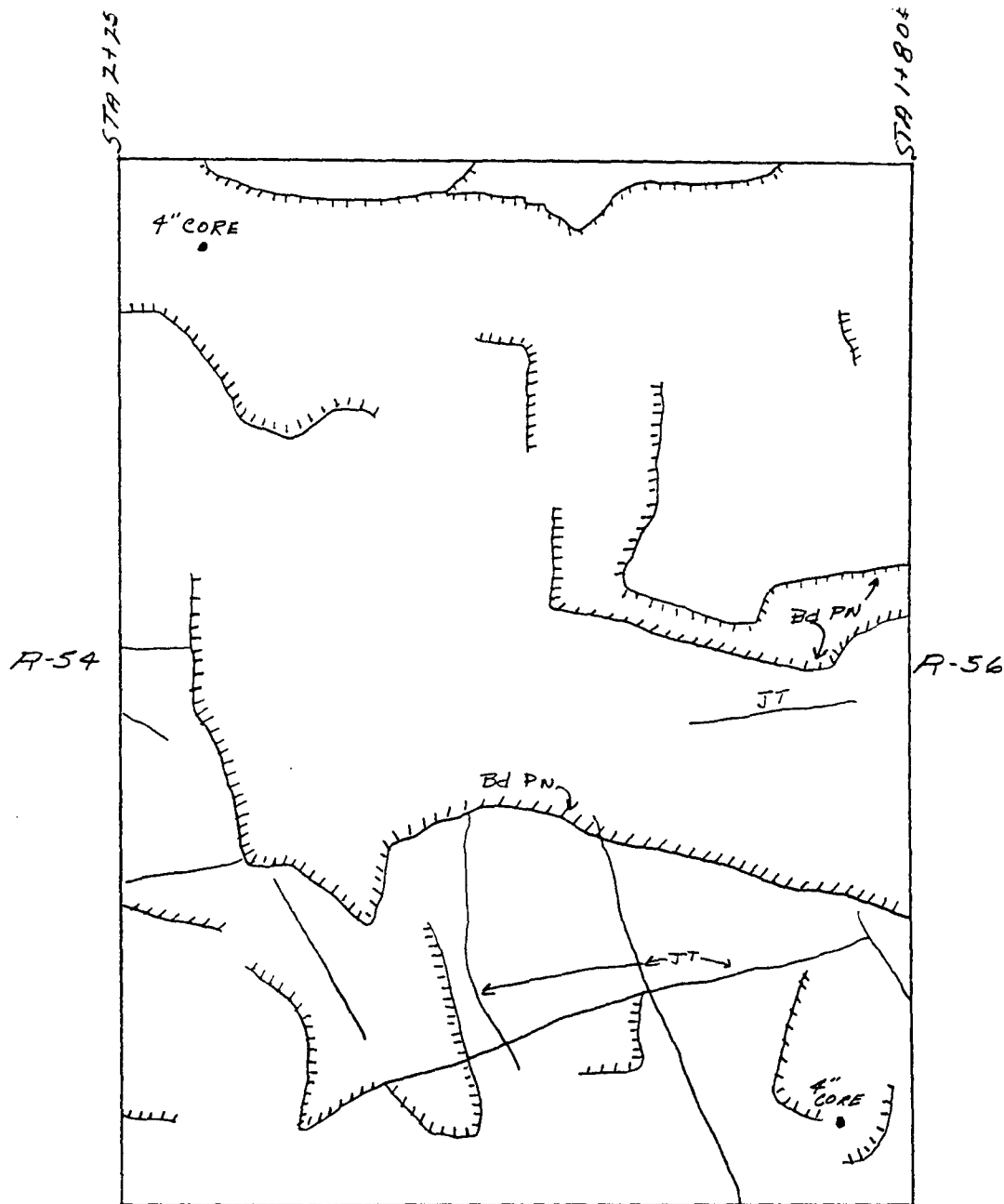
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 54

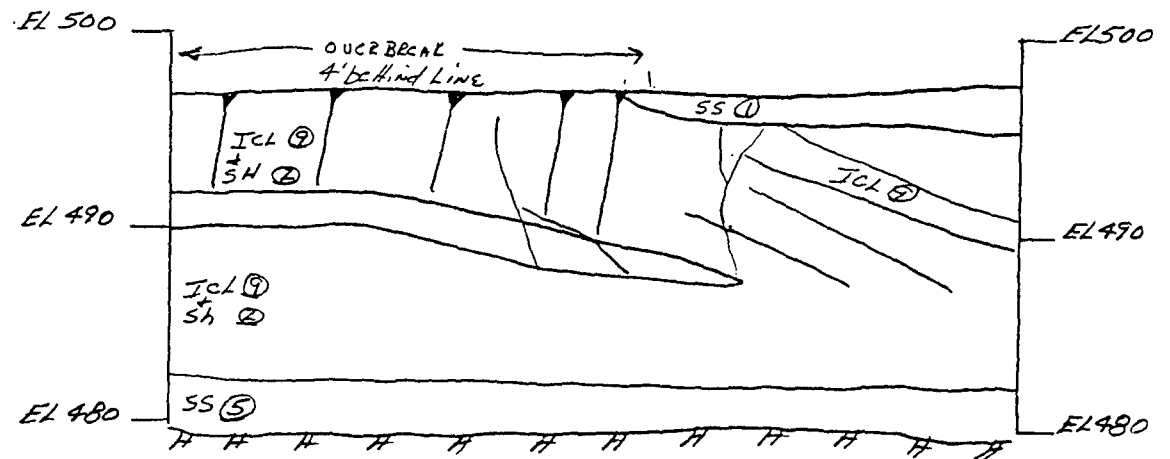


WEST SIDE WALL

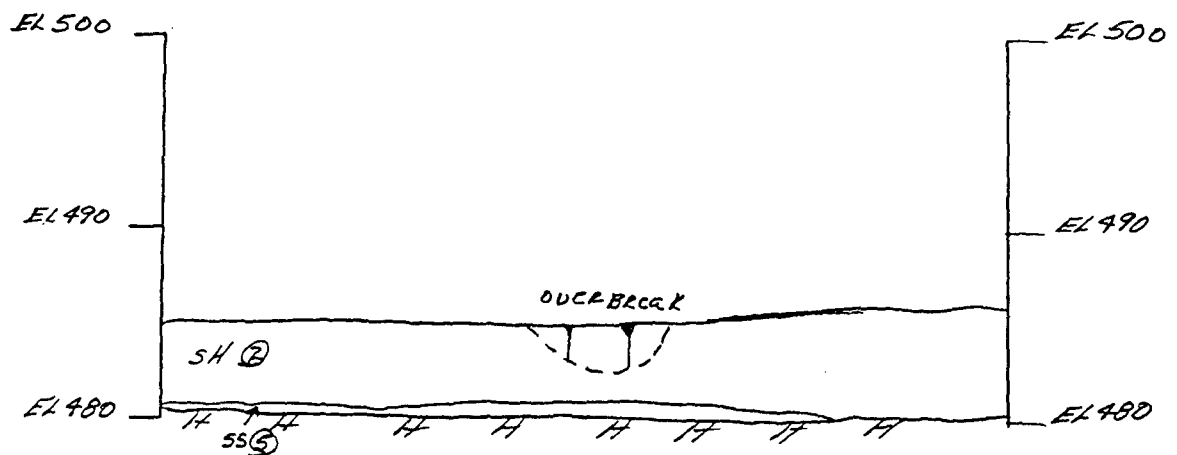


EAST SIDE WALL





WEST SIDE WALL



EAST SIDE WALL

U.S. Army Corps of Engineers

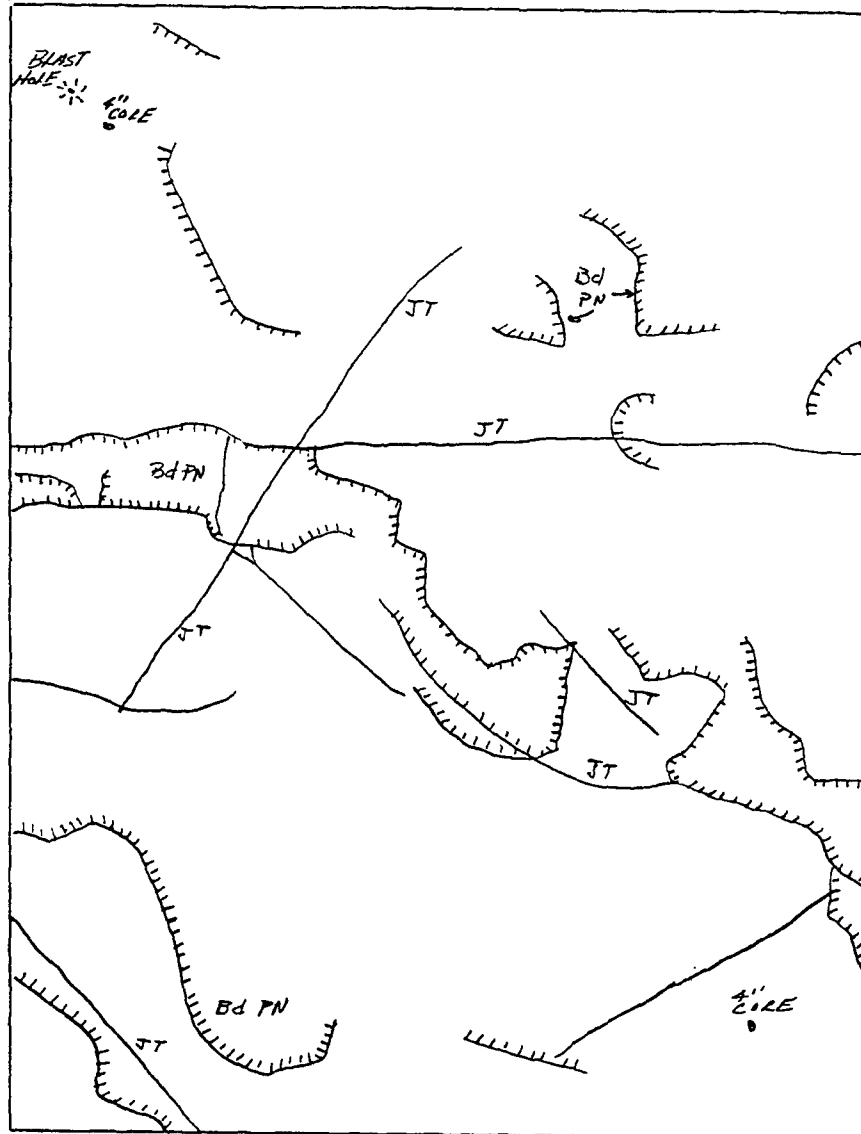
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 55

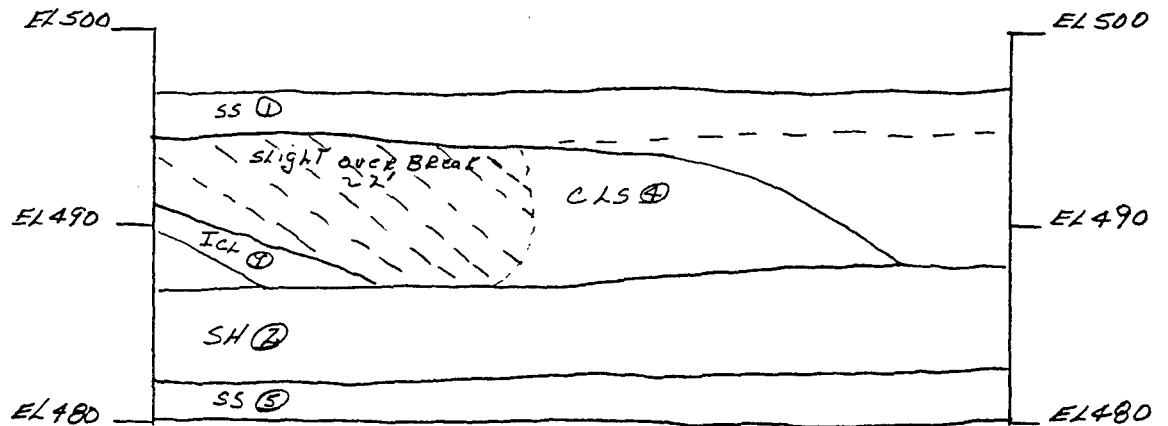
STA 1480B

STA 1435L

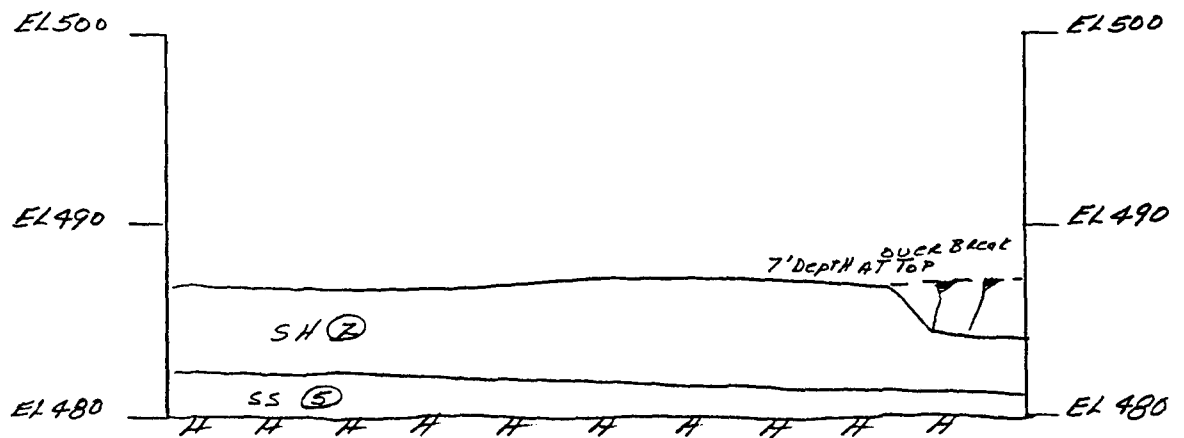
A-55

A-57





WEST SIDE WALL



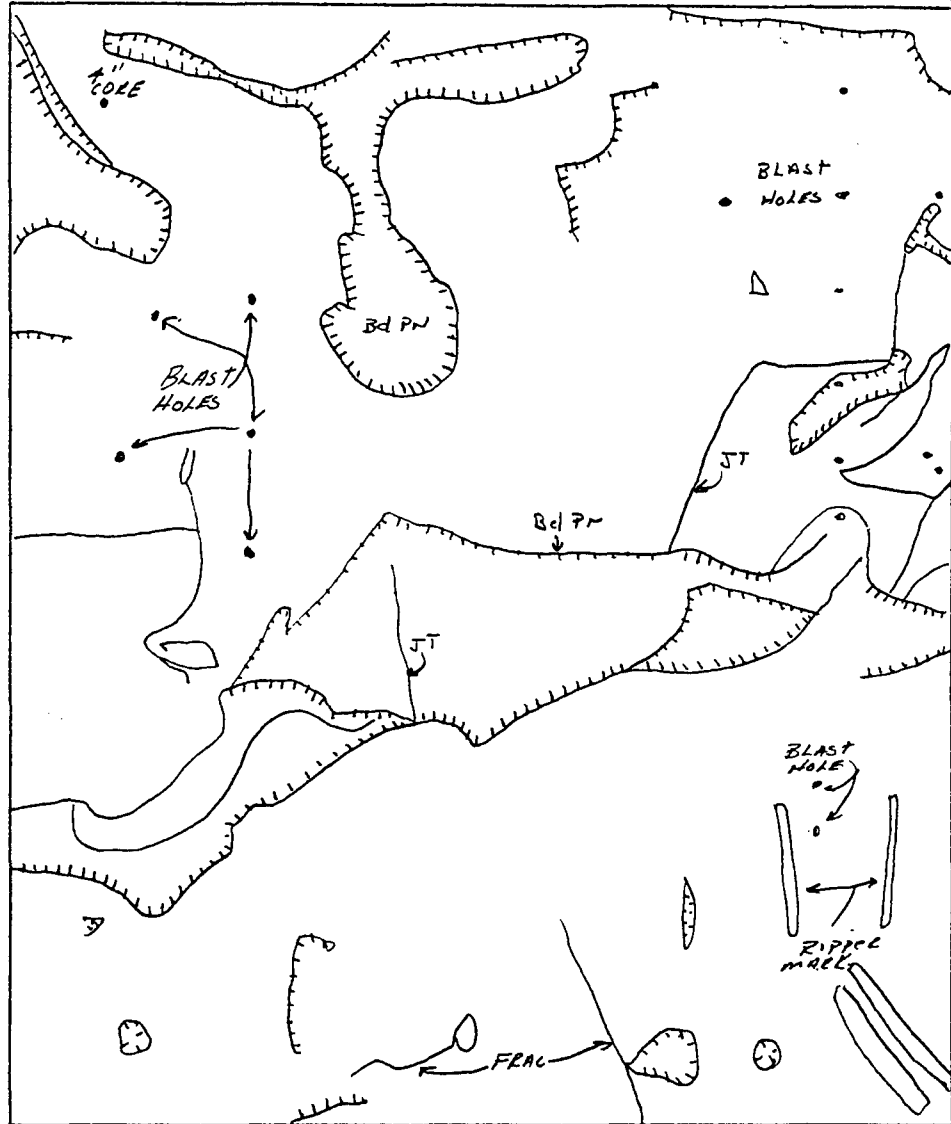
EAST SIDE WALL

STA 1+35

STA 0+8

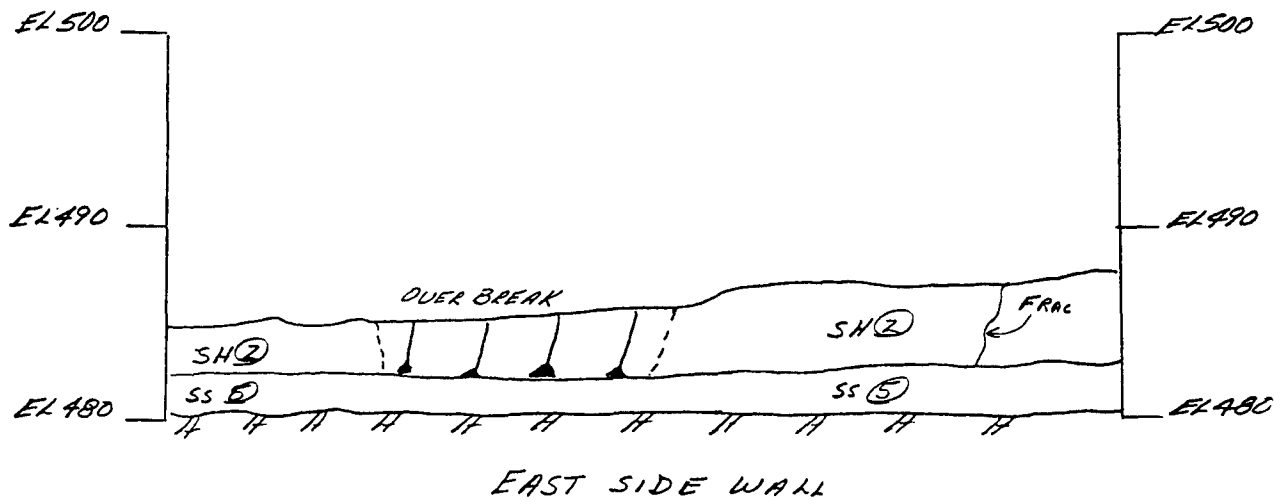
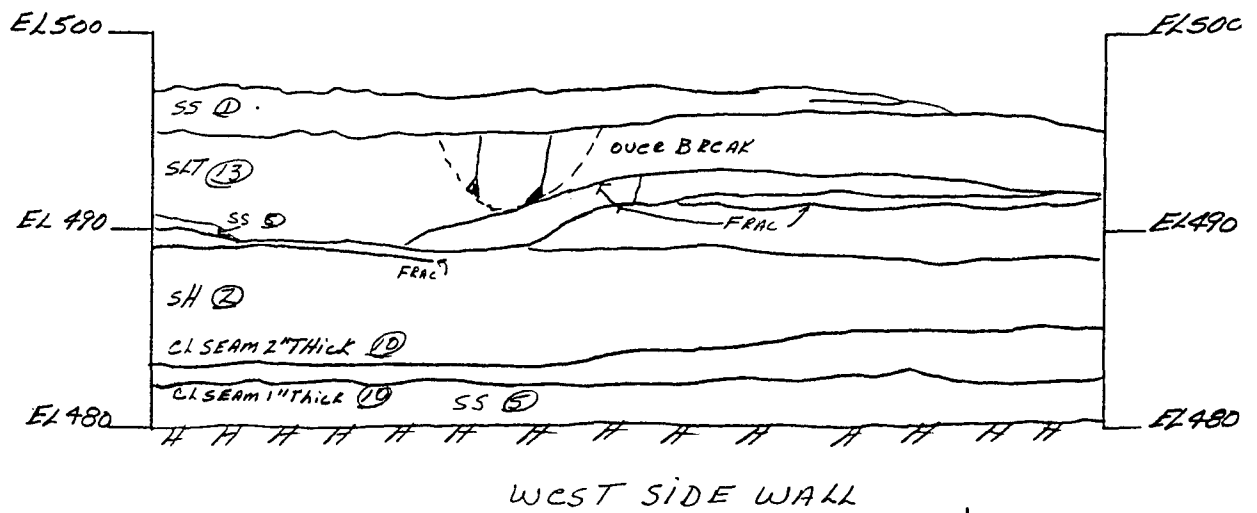
R-56

R-58



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 57



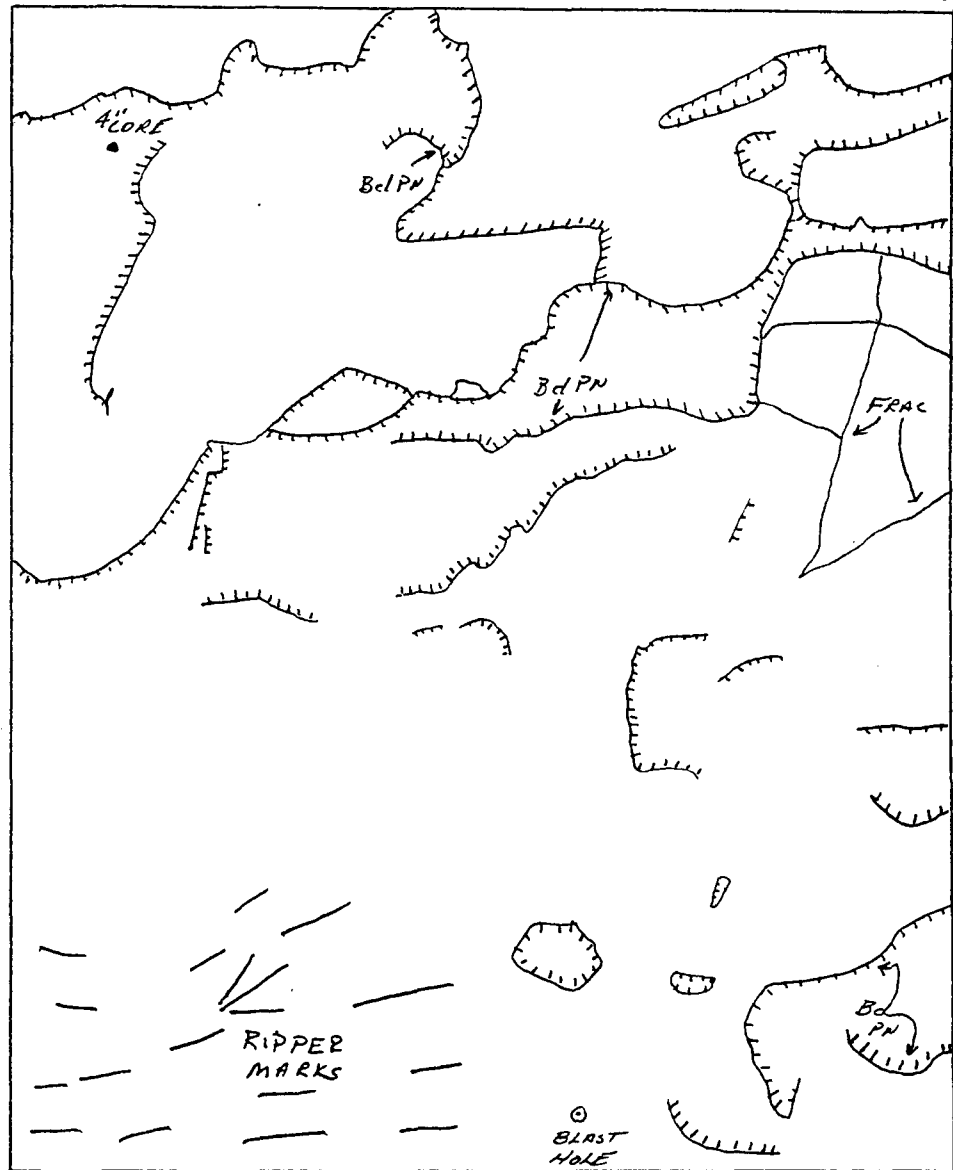


STA 0+83

STA 0+31

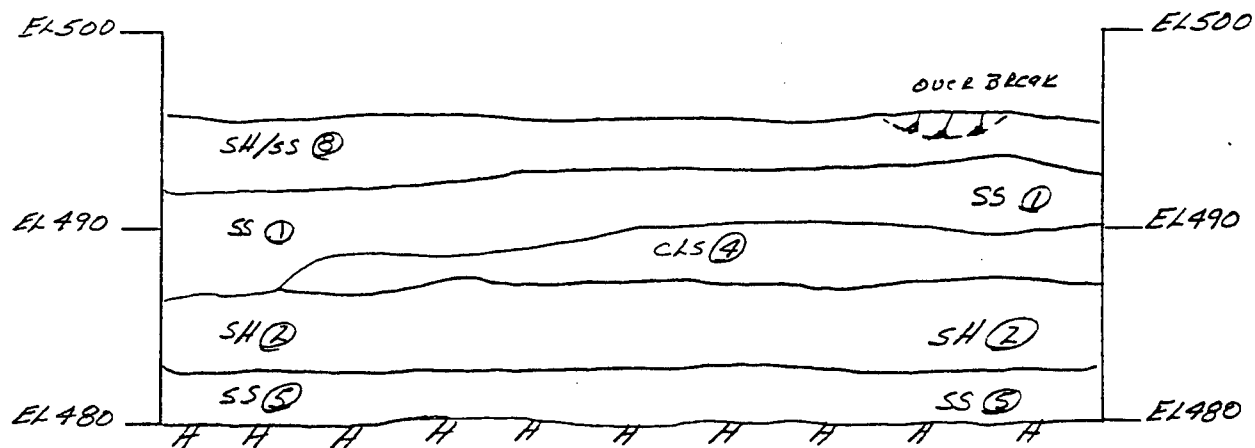
R-57

R-59

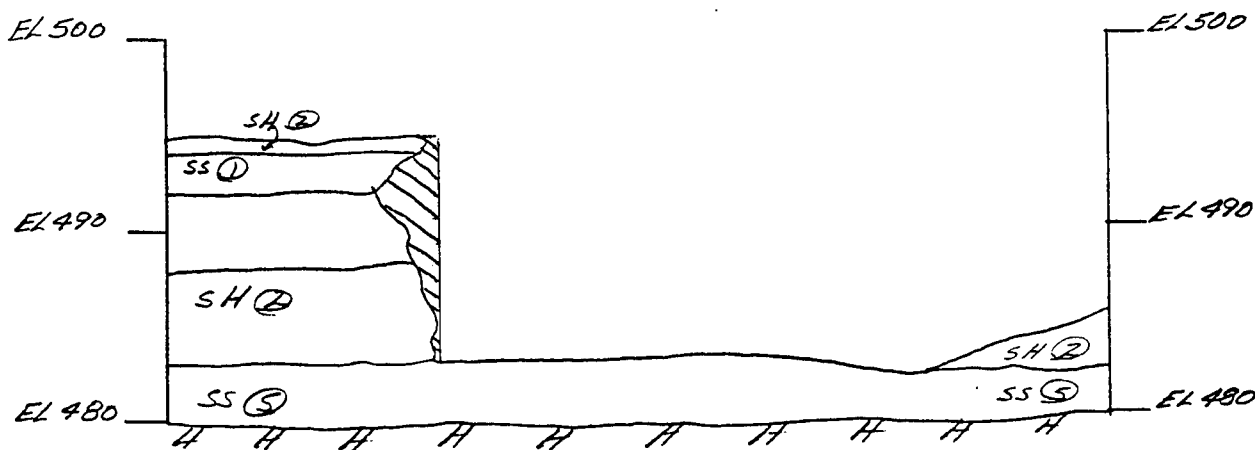


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 58



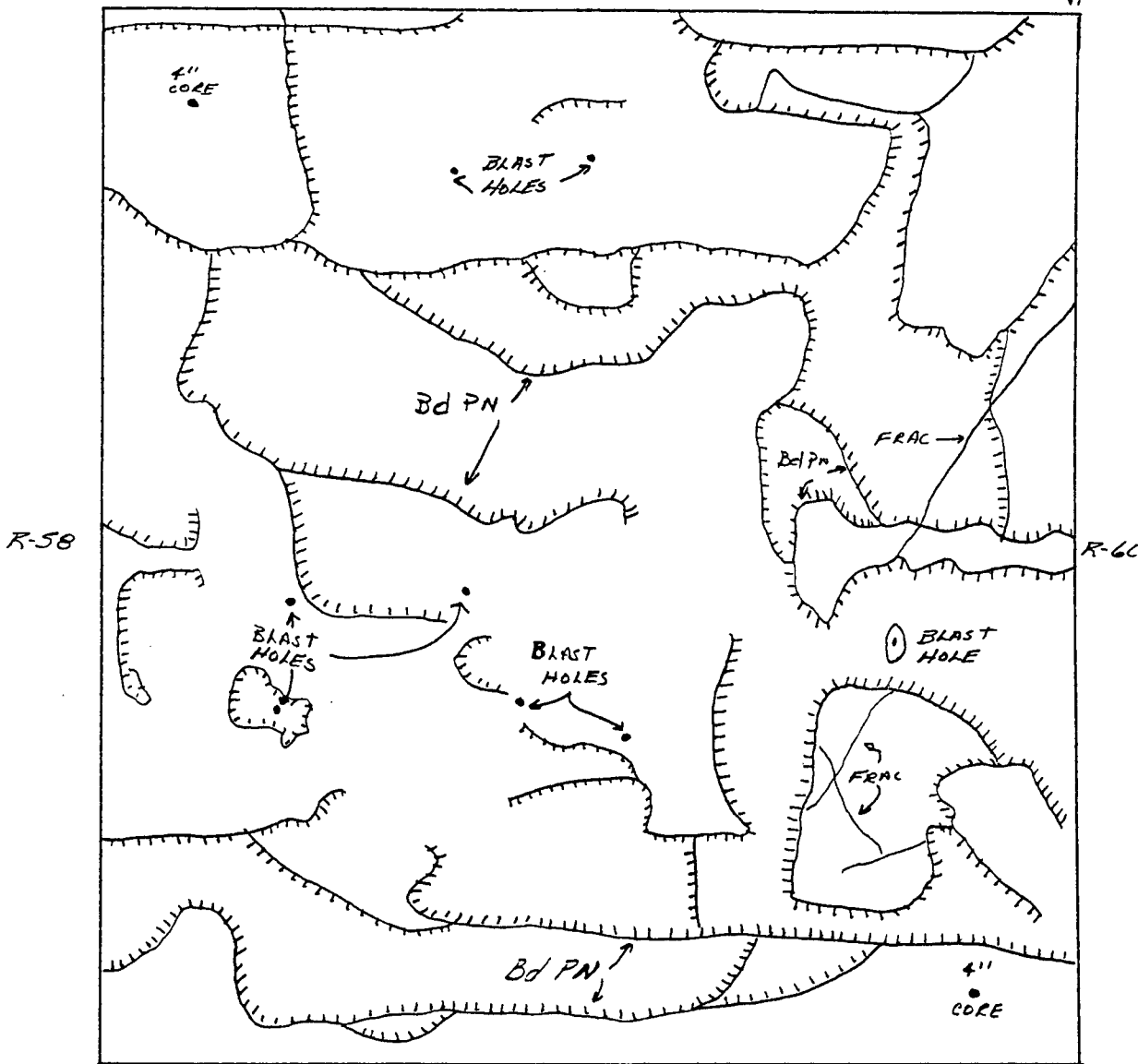
WEST SIDE WALL

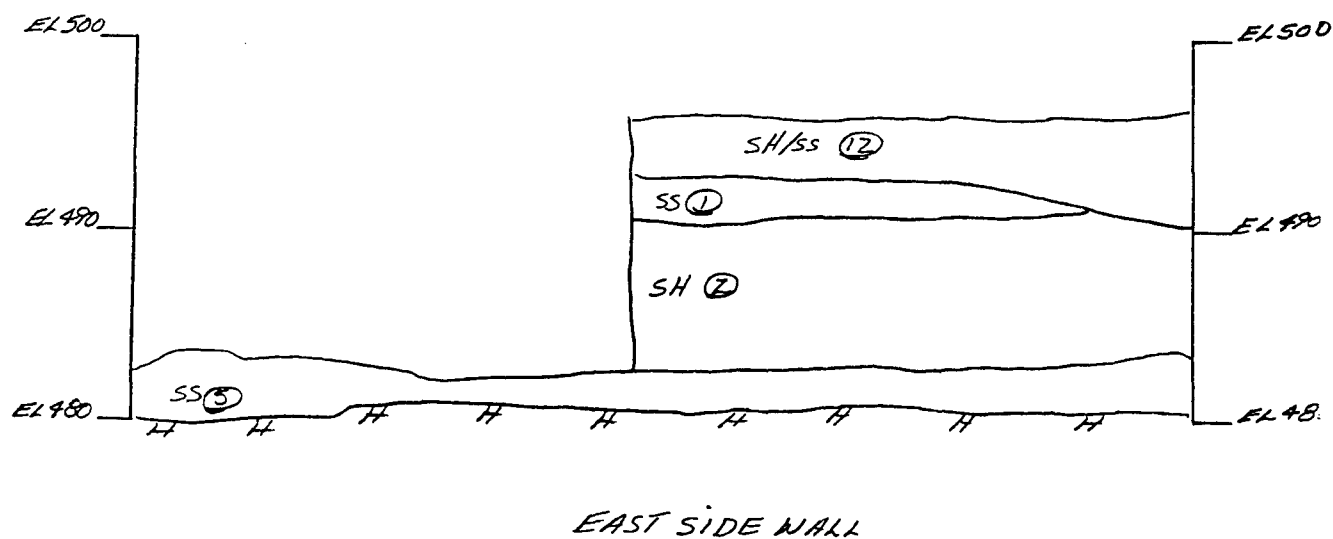
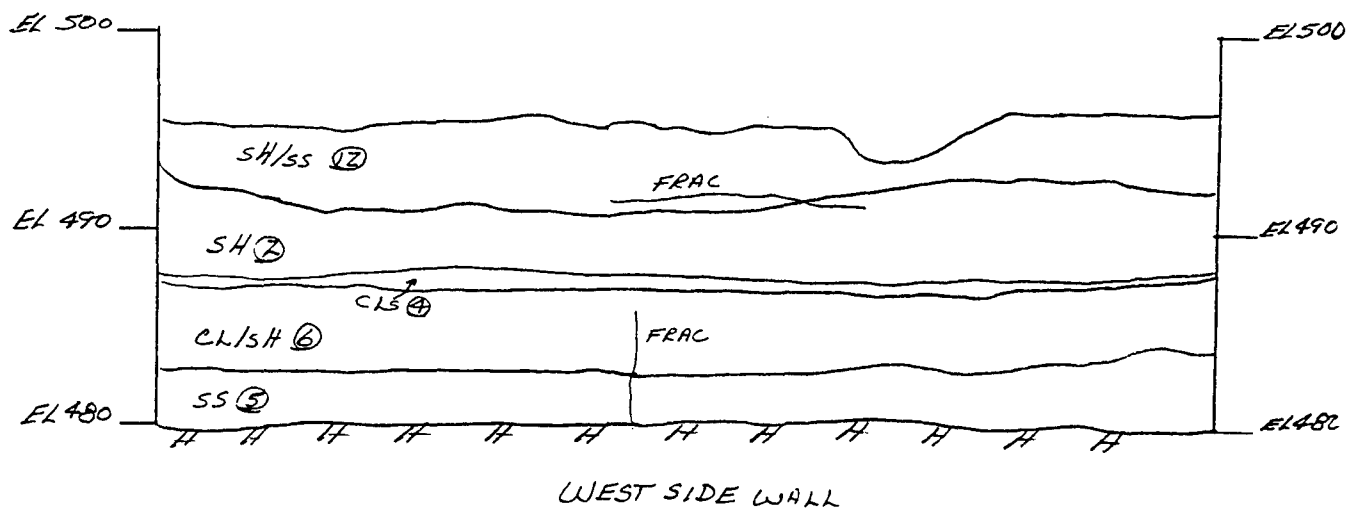


EAST SIDE WALL

STA 0135.6

STA 0121.1



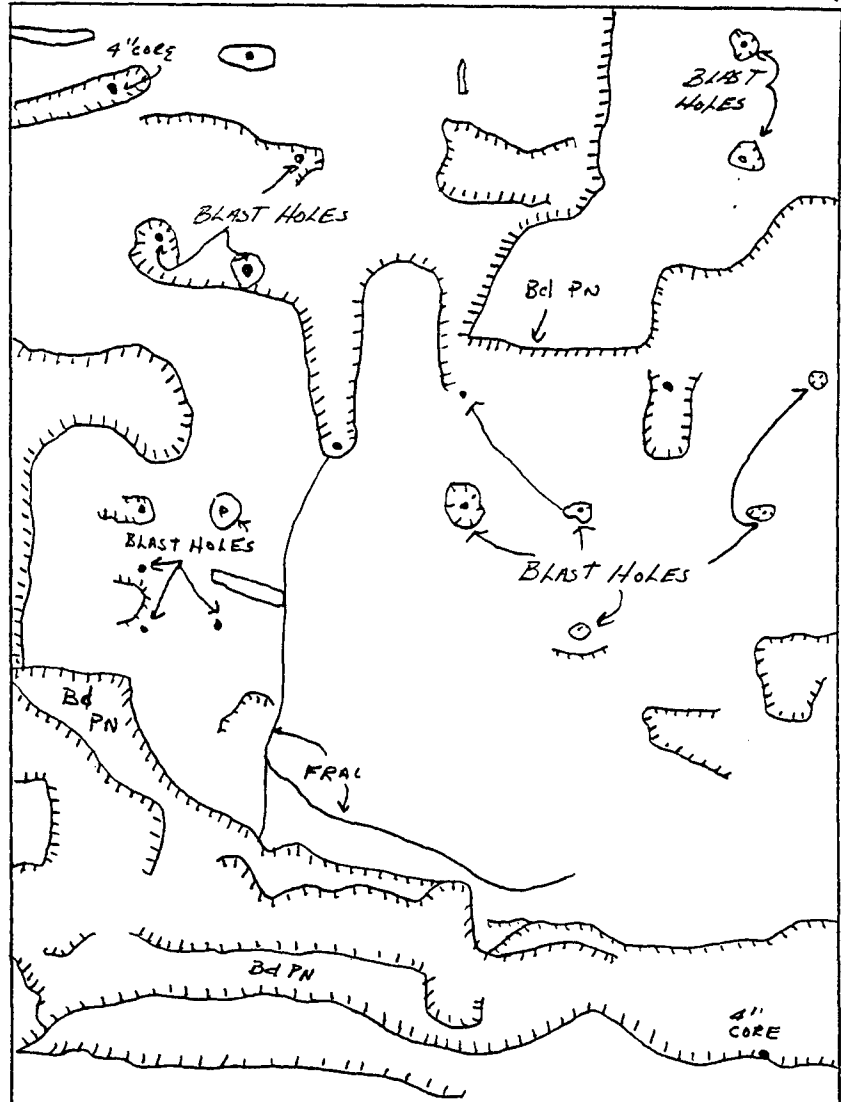


STA 0421A

STA 0465'

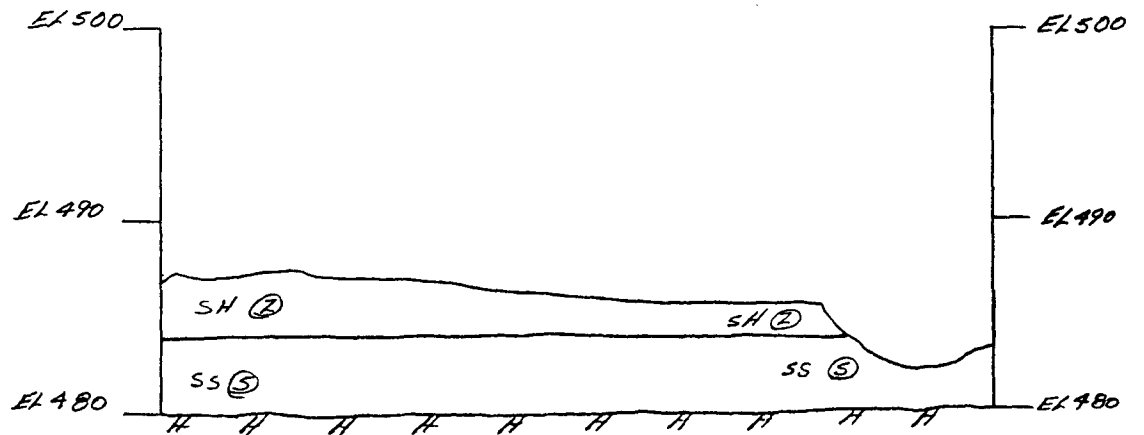
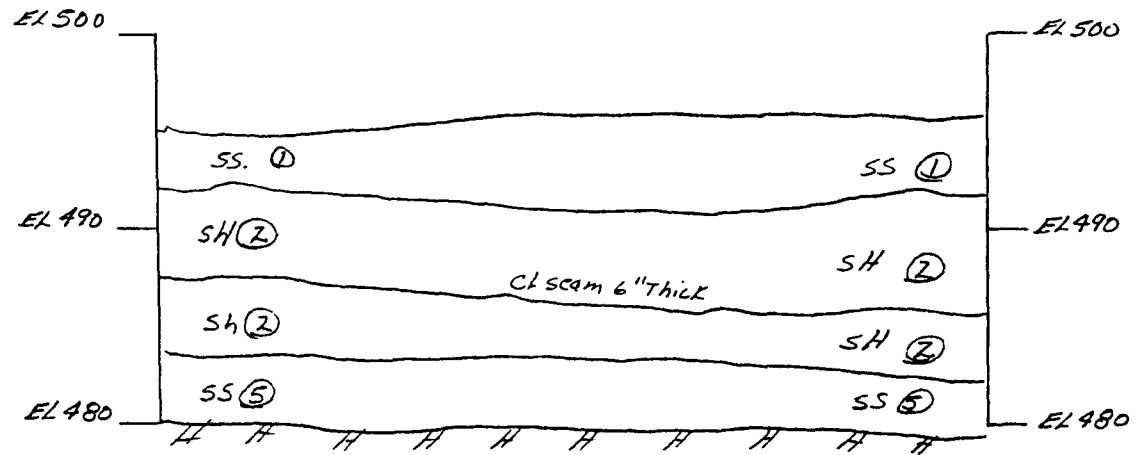
R-59

R-61



U.S. Army Corps of Engineers

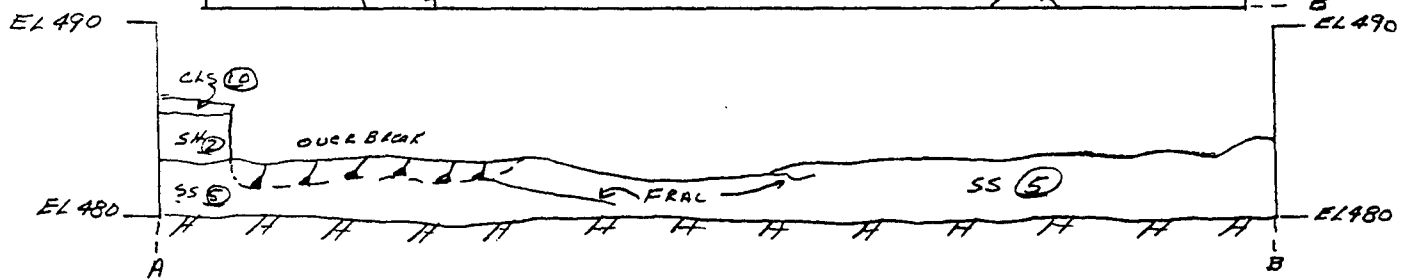
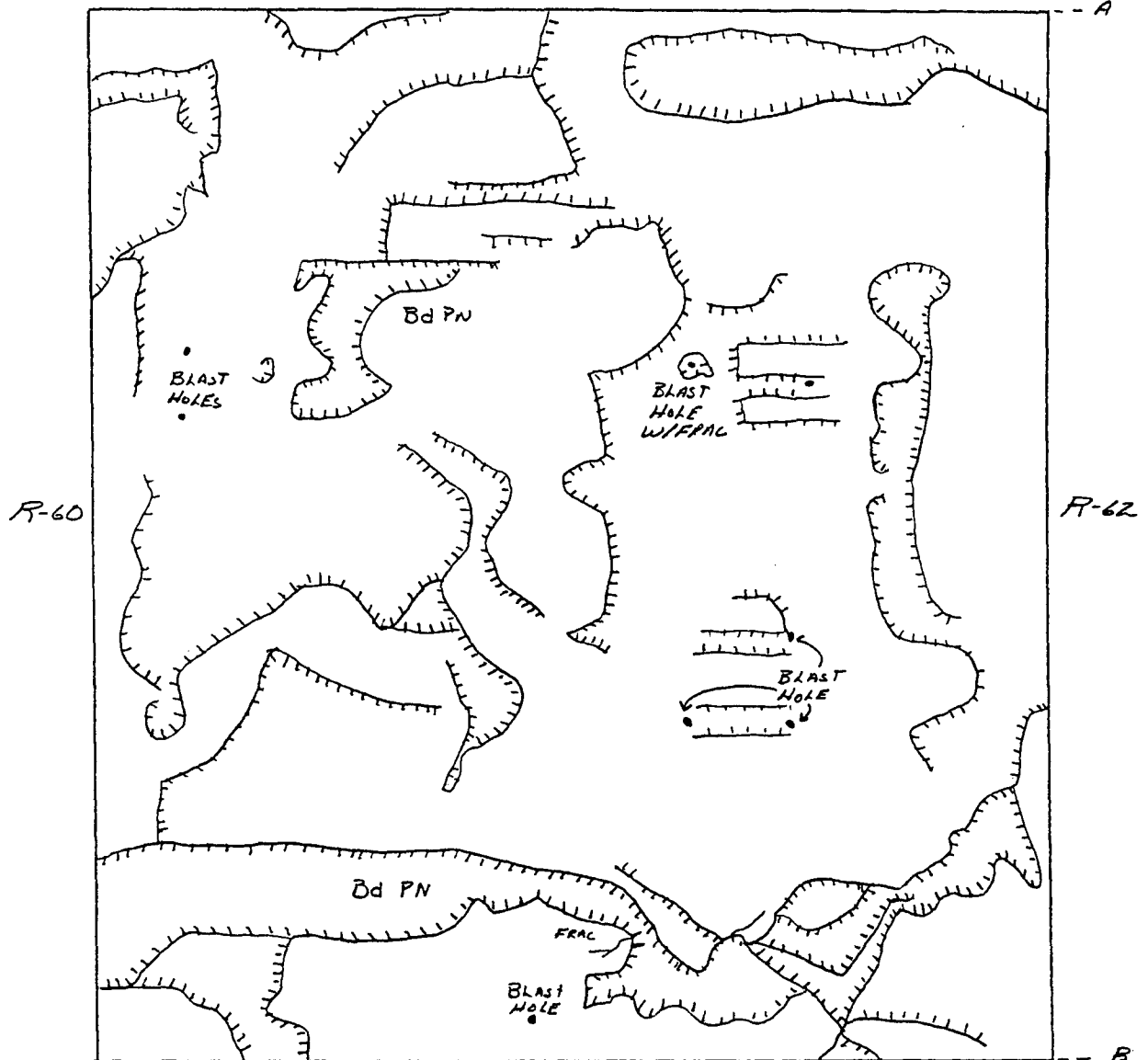
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 60



EAST SIDE WALL

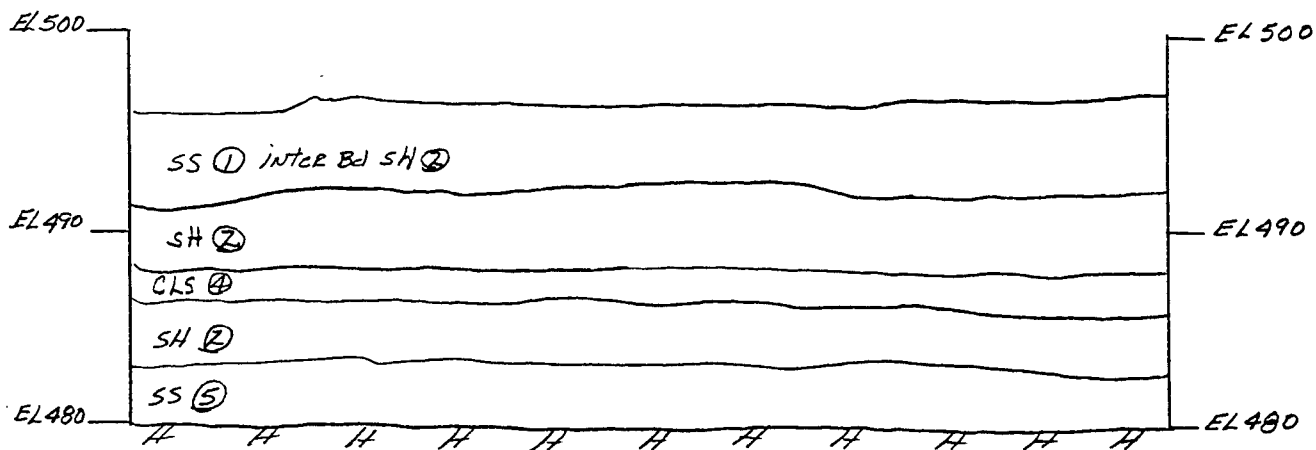
STA 0+65A

STA 1+20

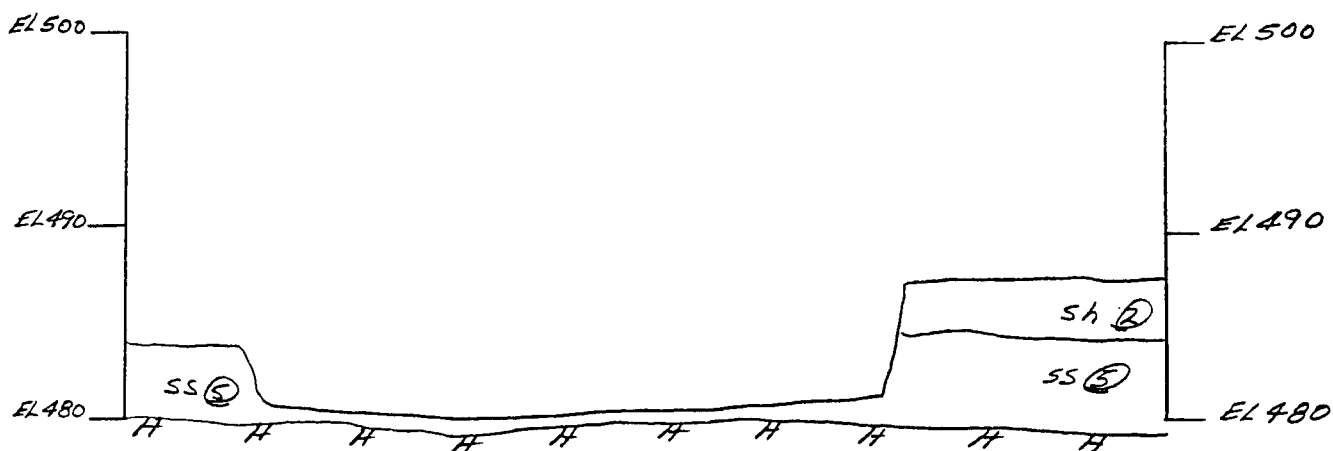


STEP R-61/R-62

U.S. Army Corps of Engineers  
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 61



WEST SIDE WALL



EAST SIDE WALL

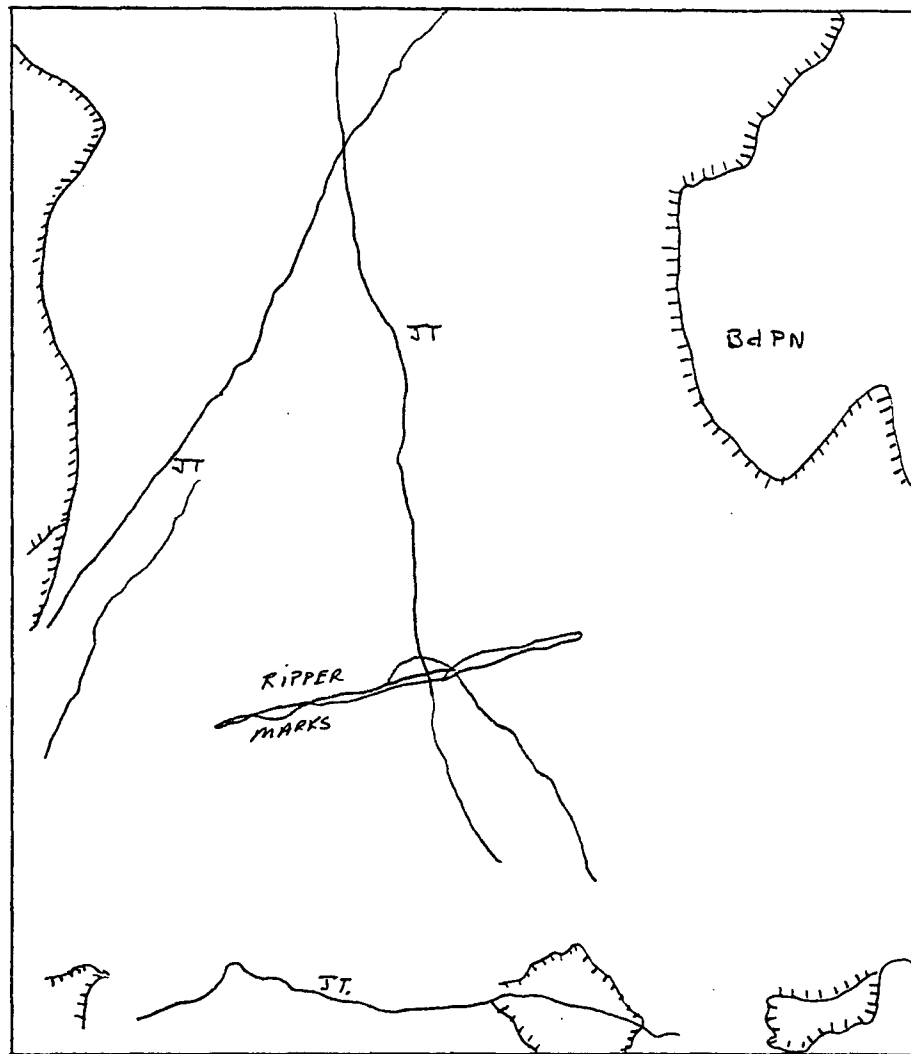


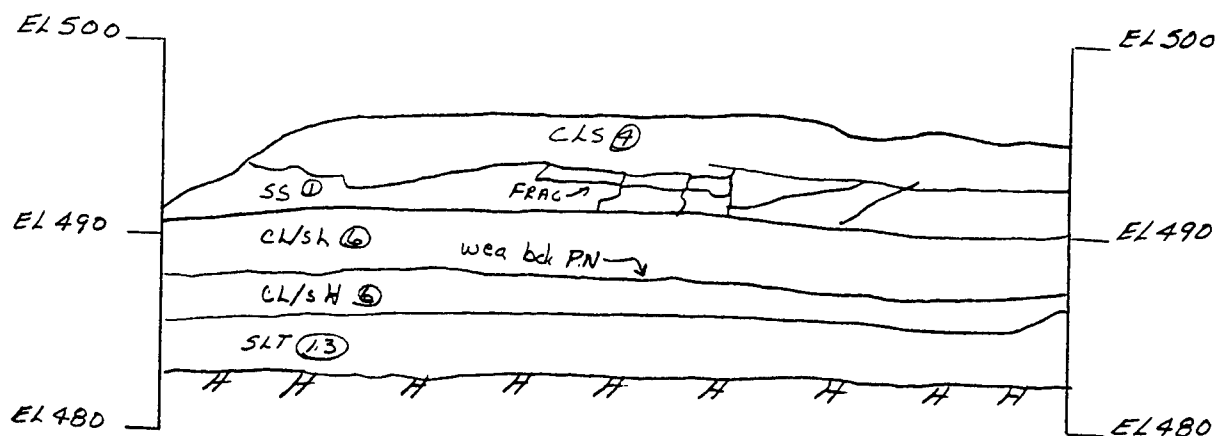
STA 1730

STA 1768

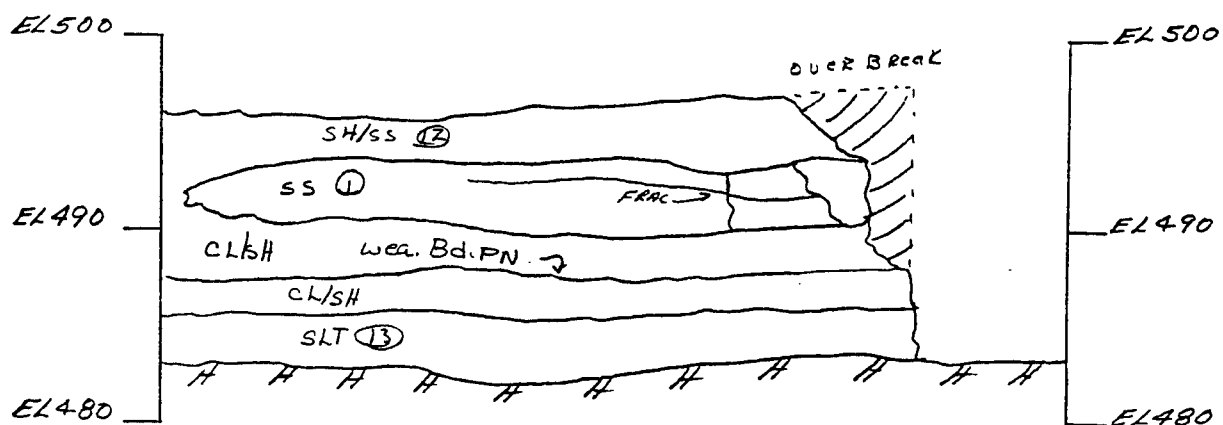
A-61

A-63





WEST SIDE WALL



EAST SIDE WALL

U.S. Army Corps of Engineers

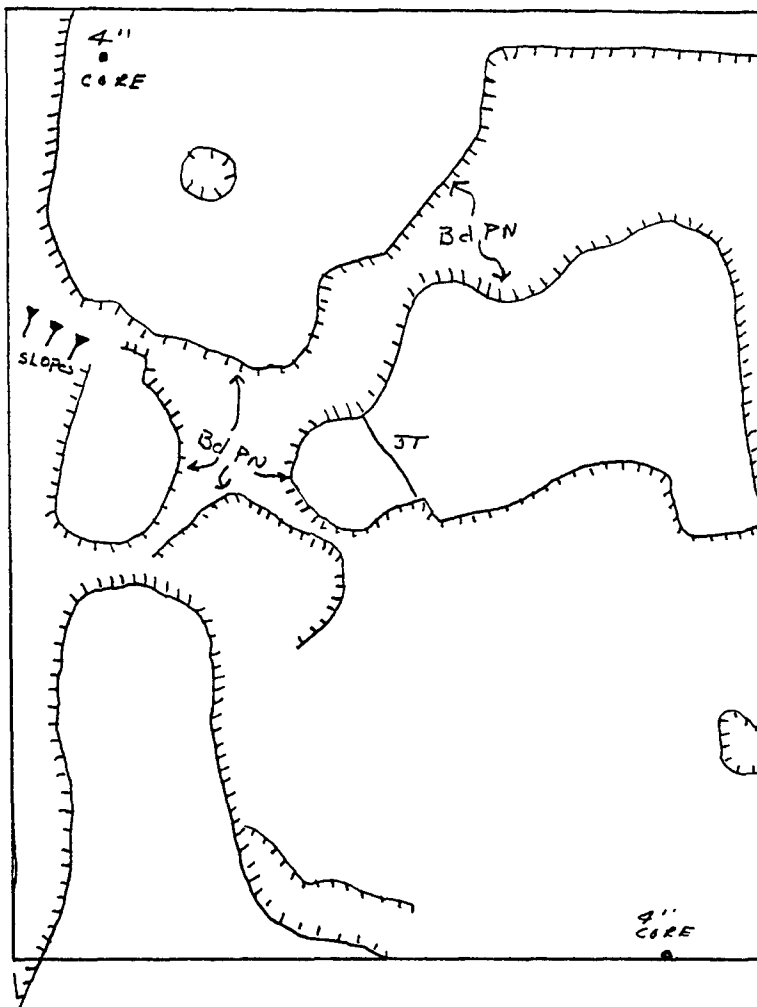
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 62

STA 1768

STA 2406

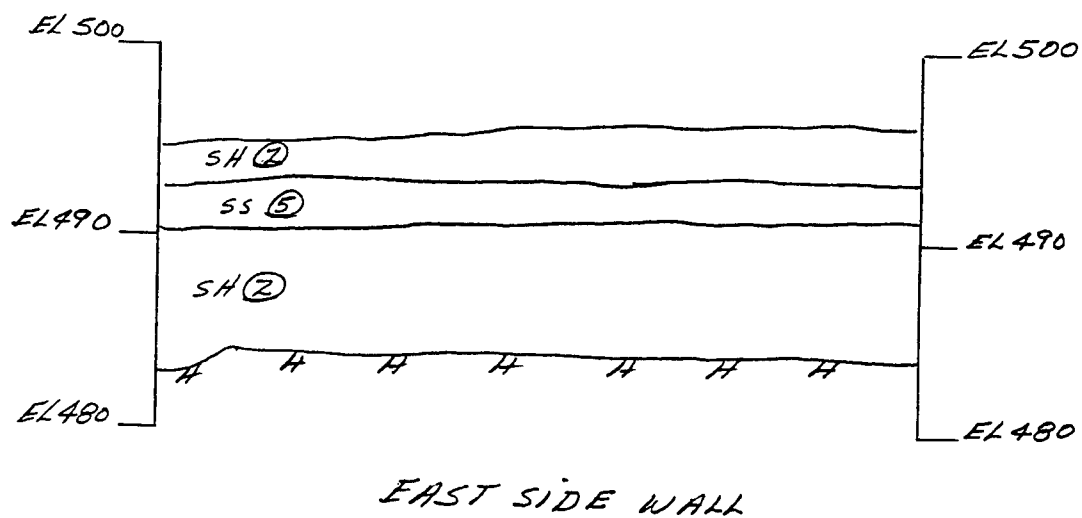
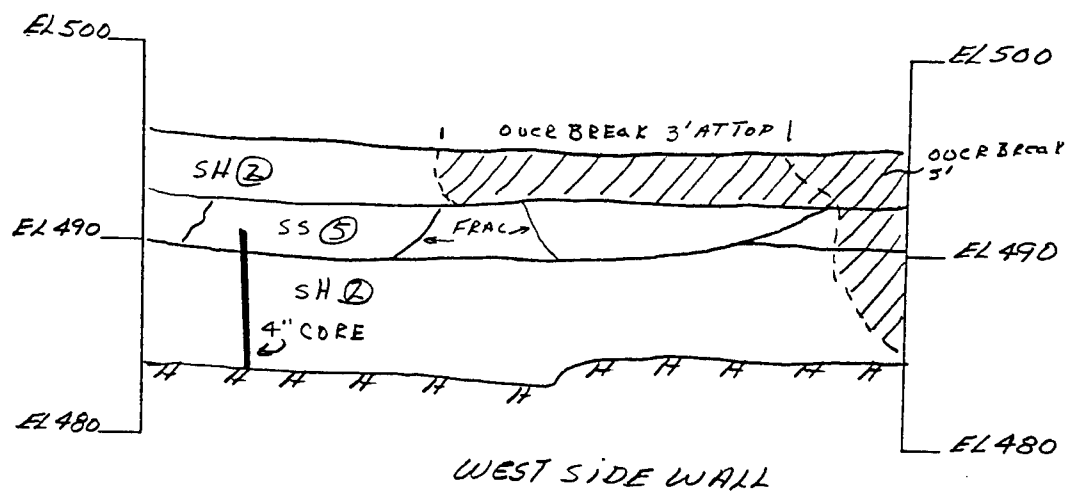
R-62

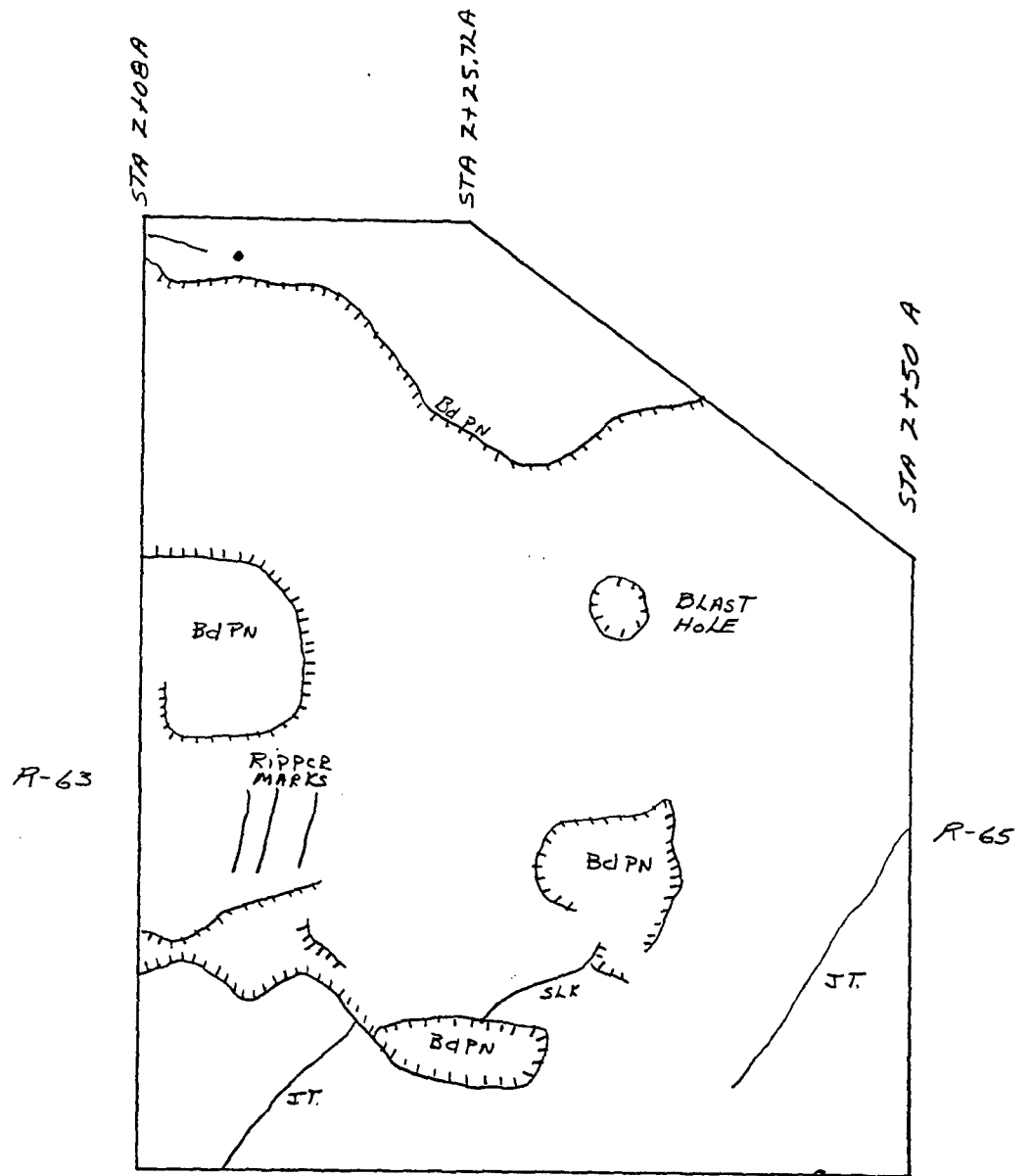
R-64

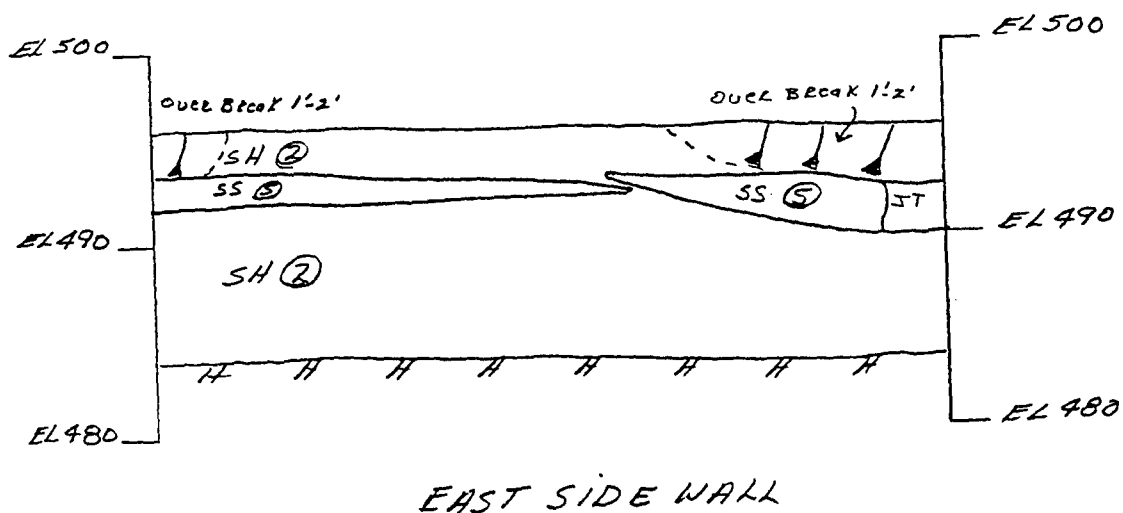
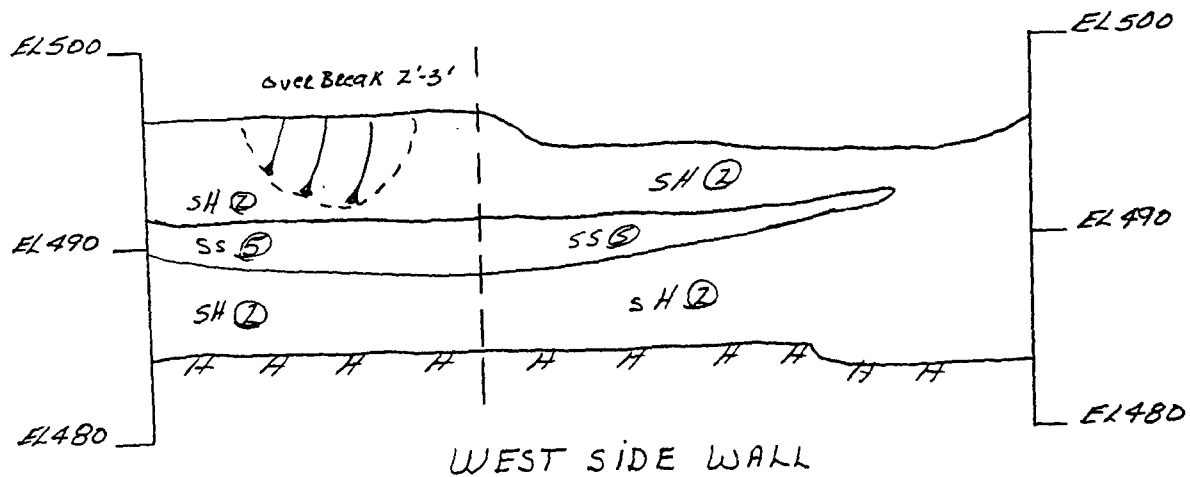


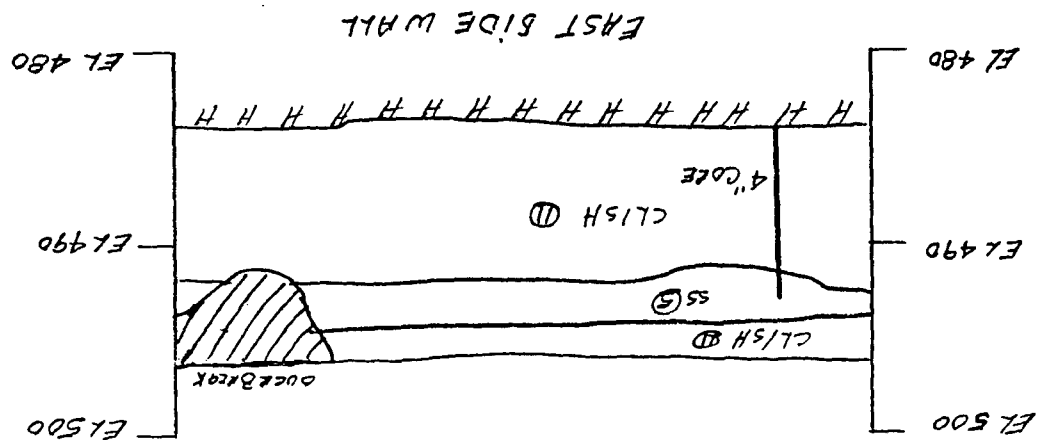
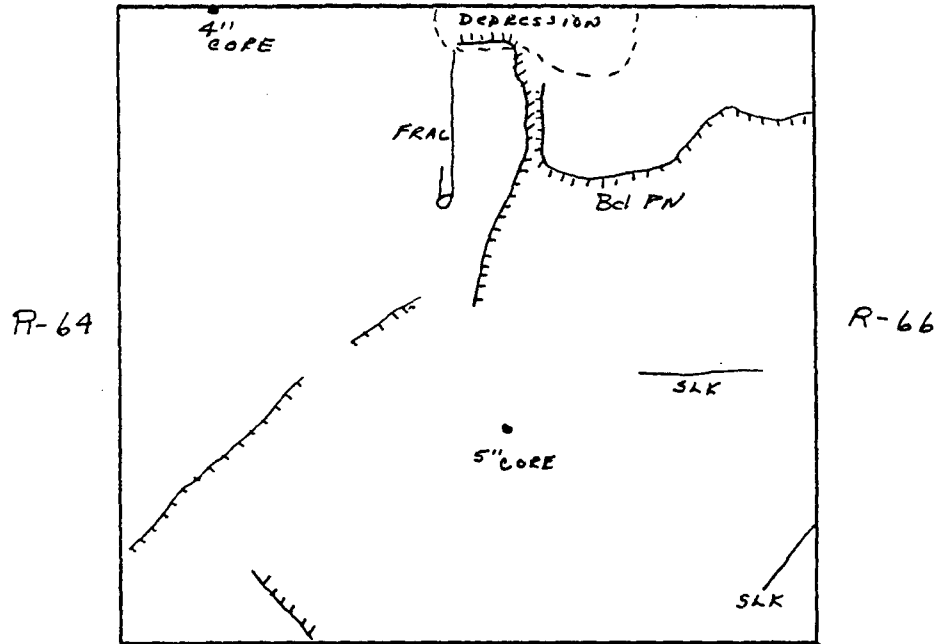
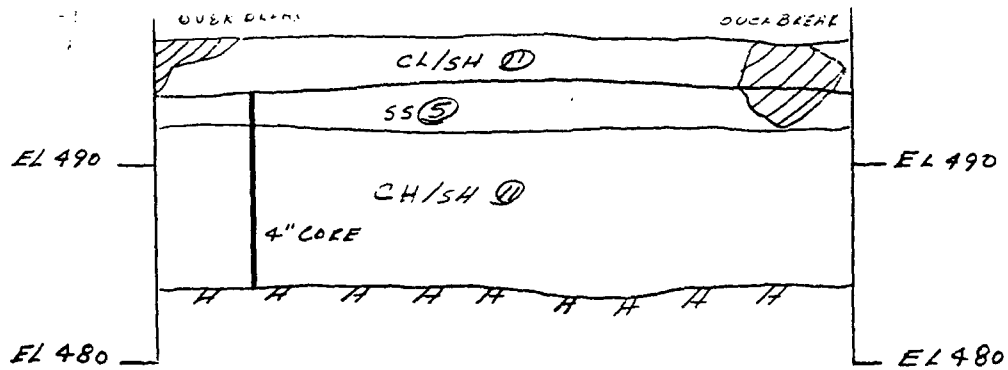
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 63







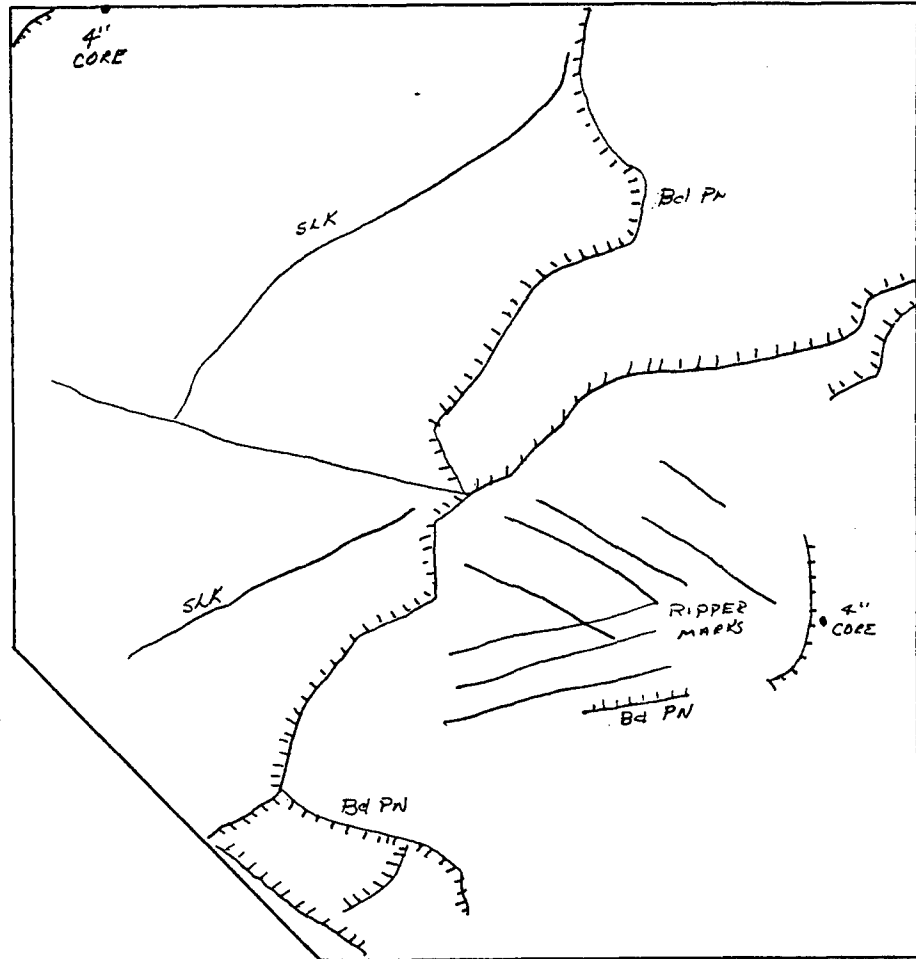


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 65

STA 2+87

STA 3+35

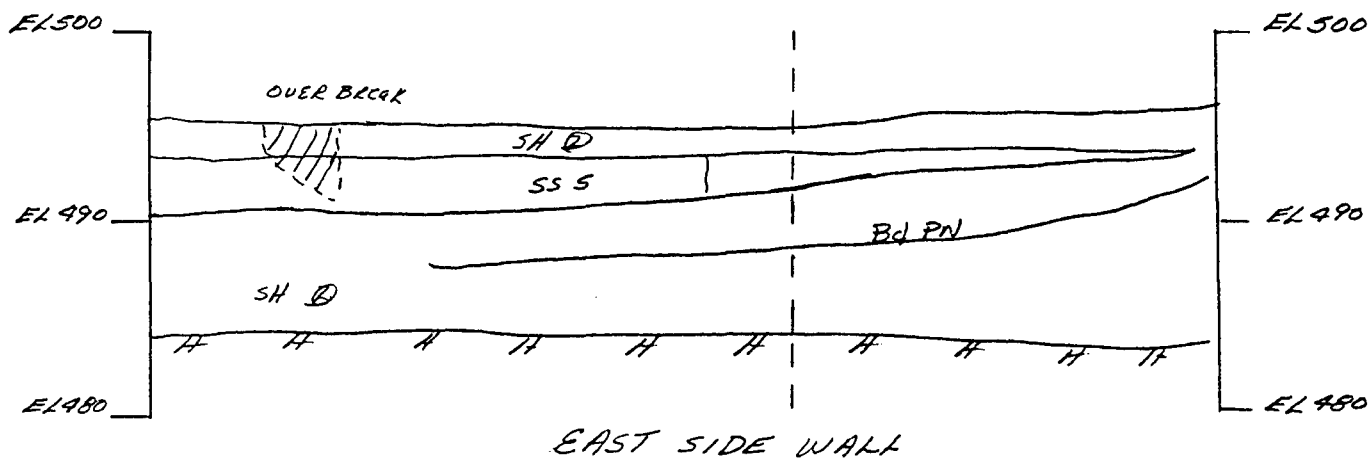
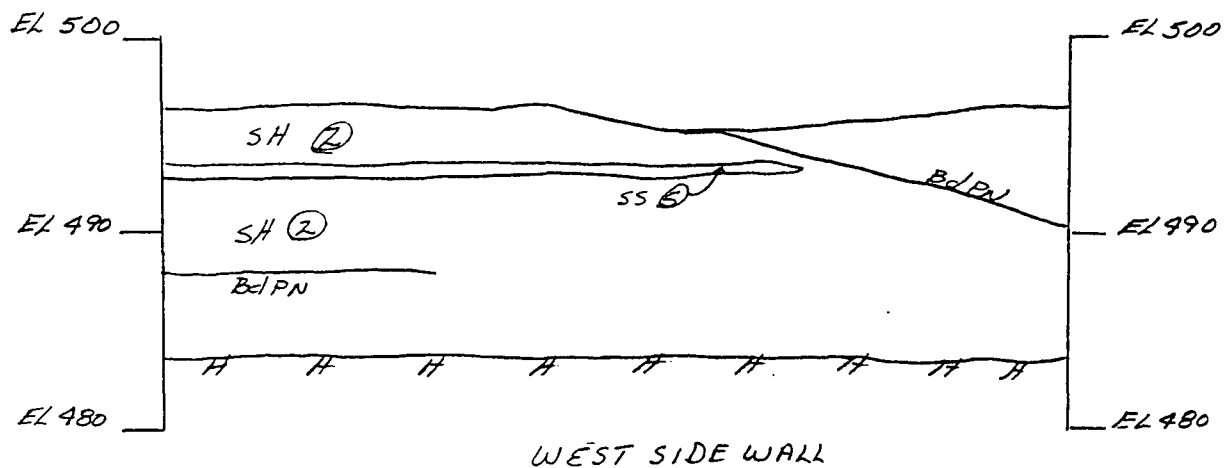


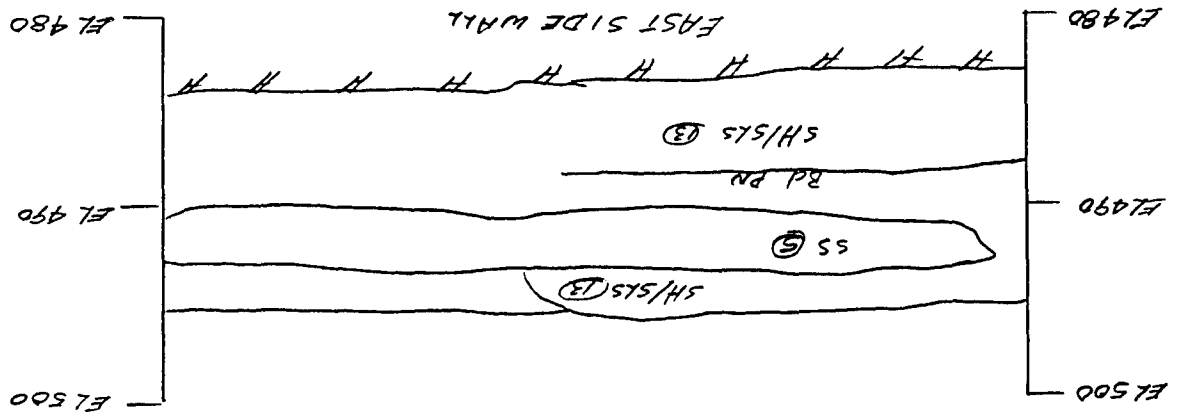
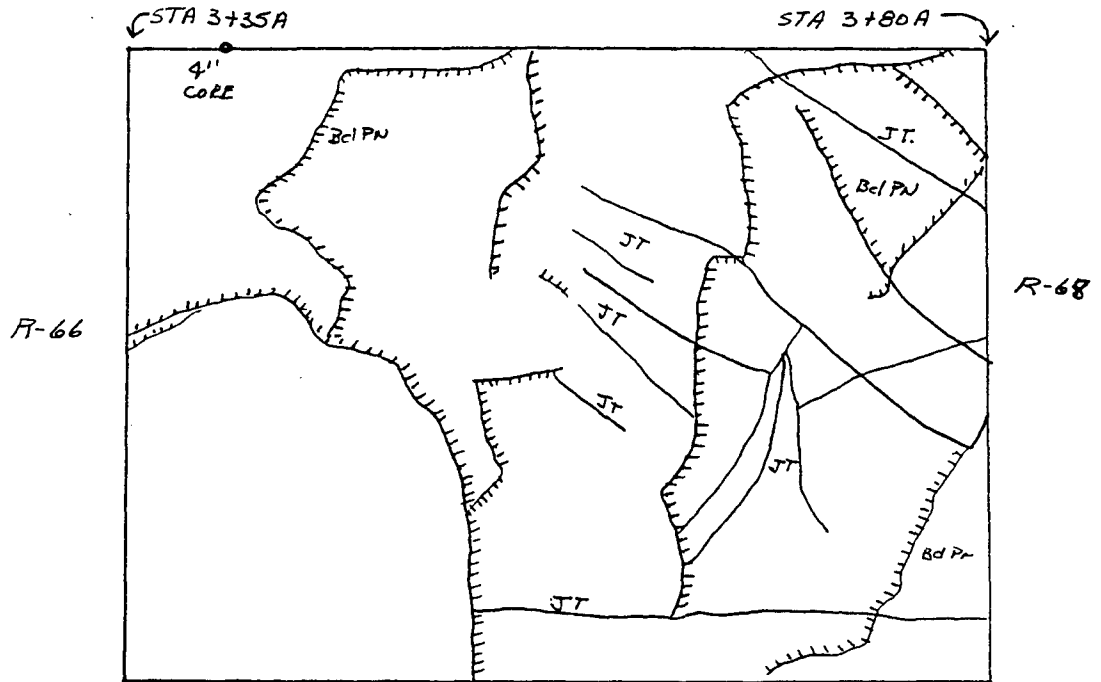
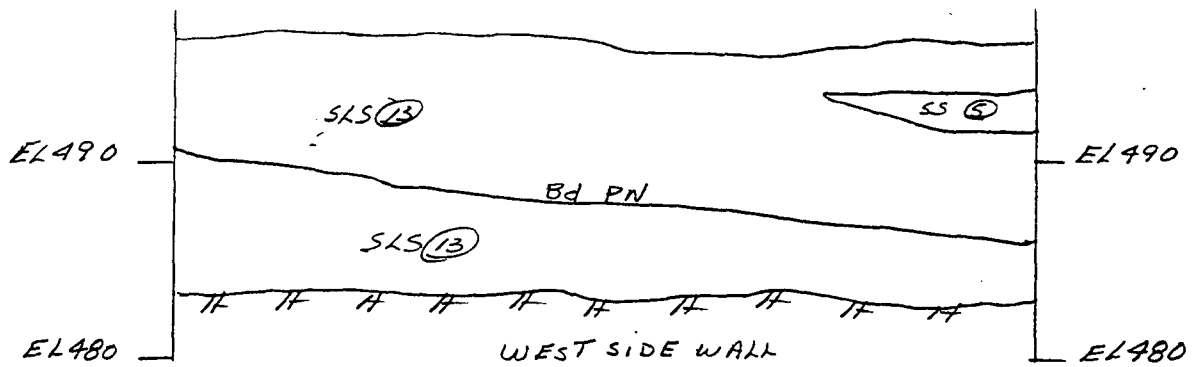
STA 3+03A

U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 66

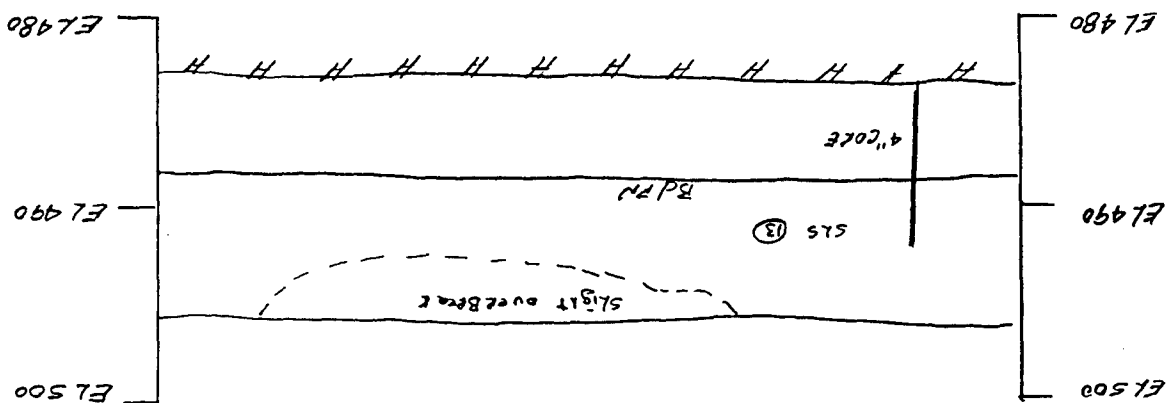
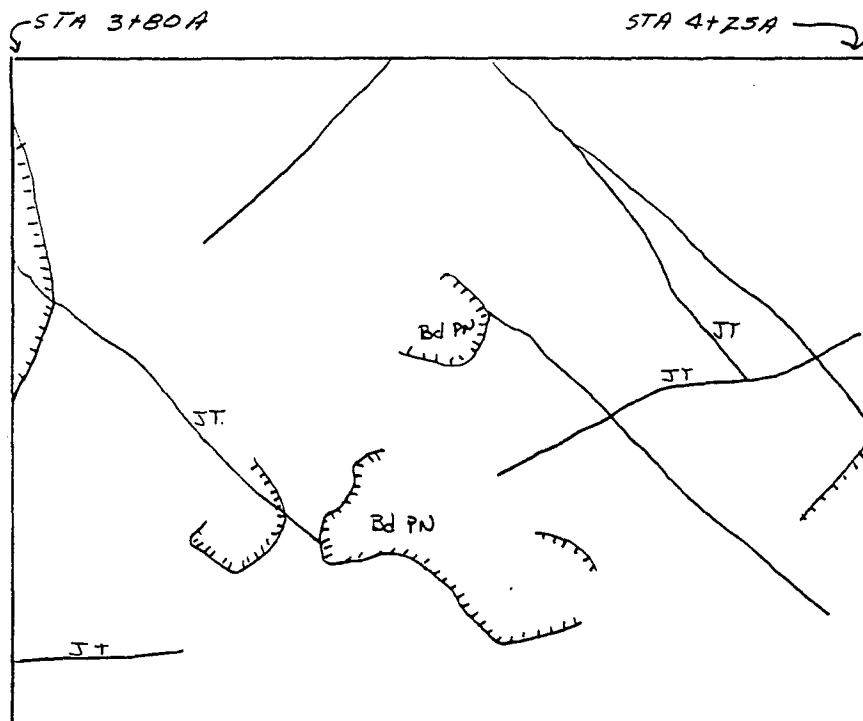
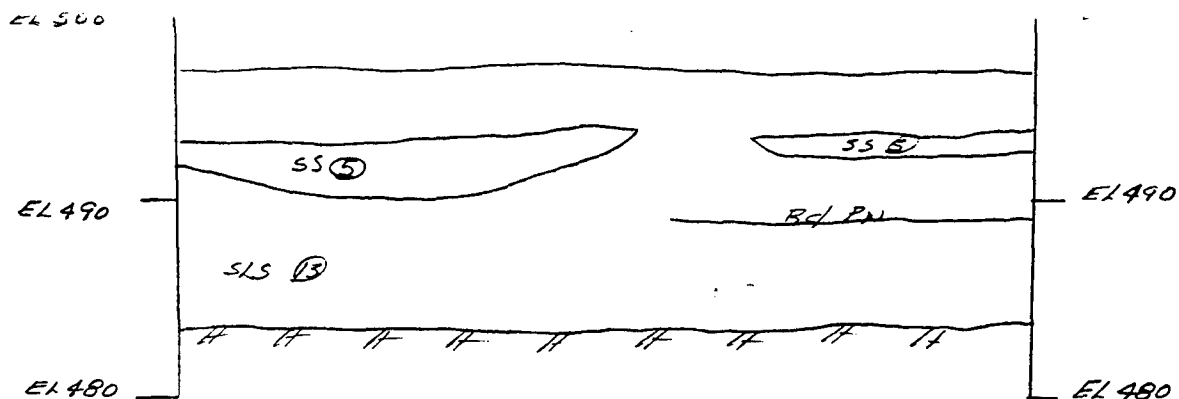






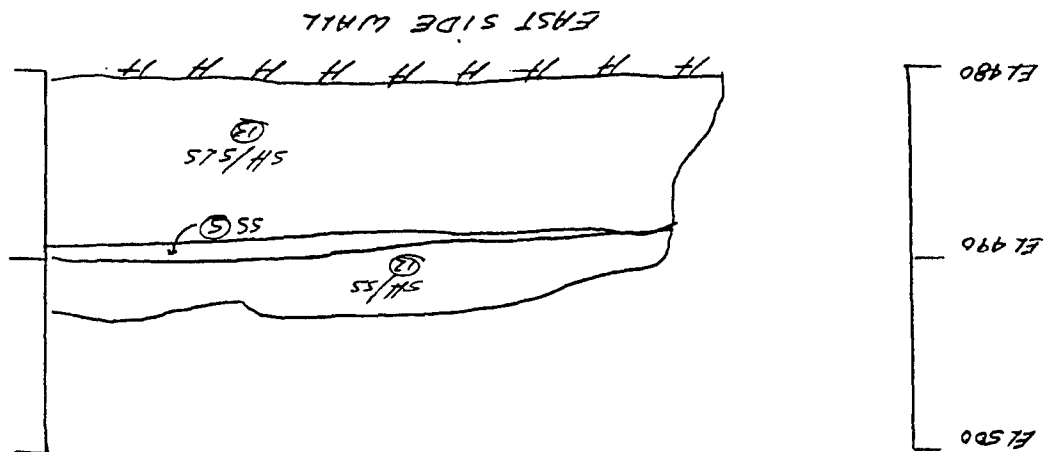
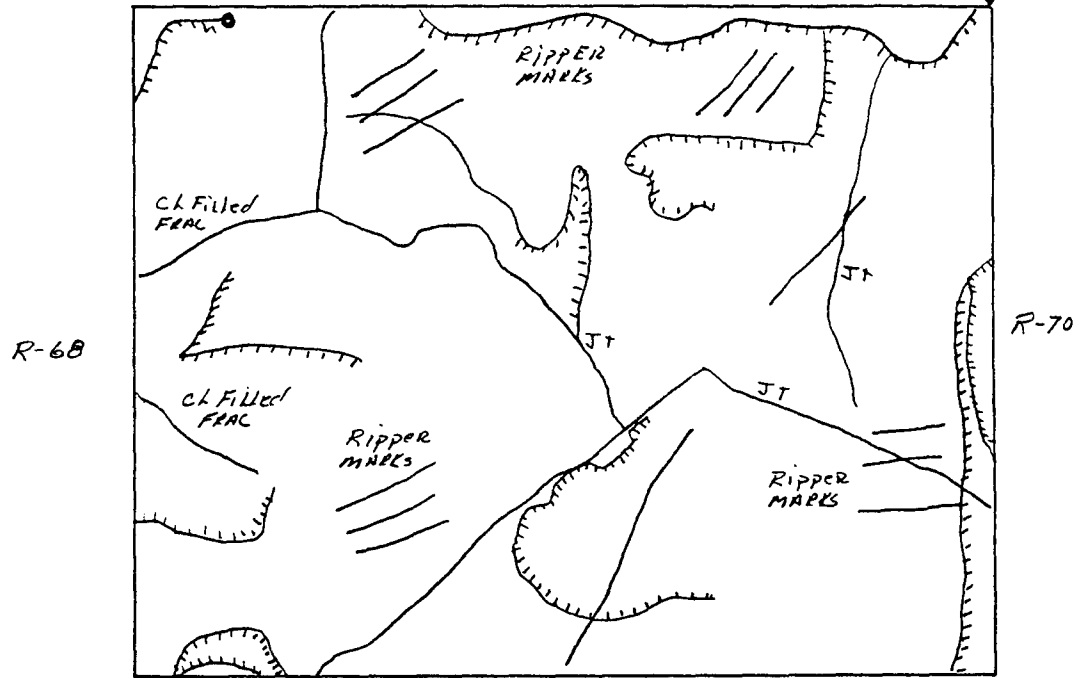
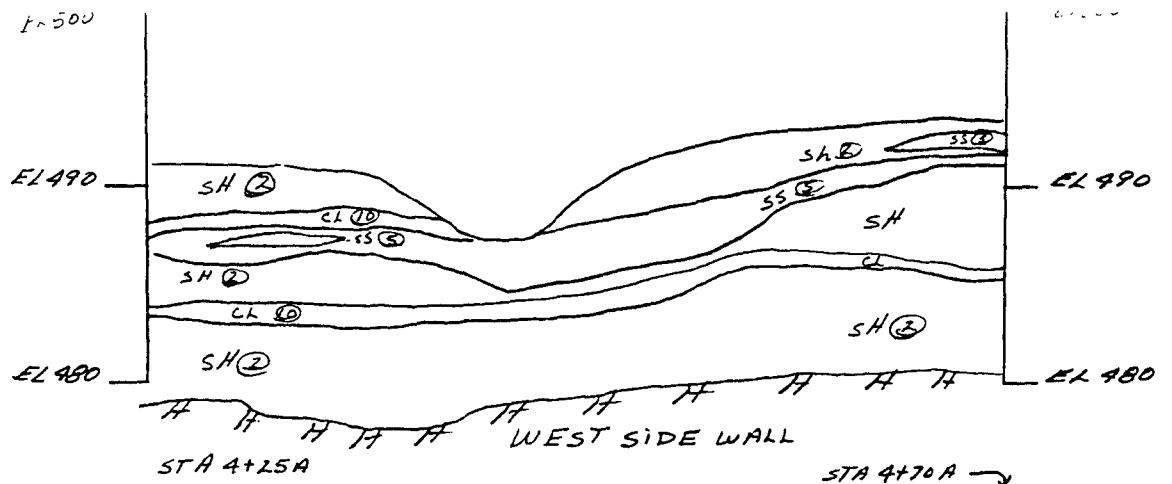
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 67



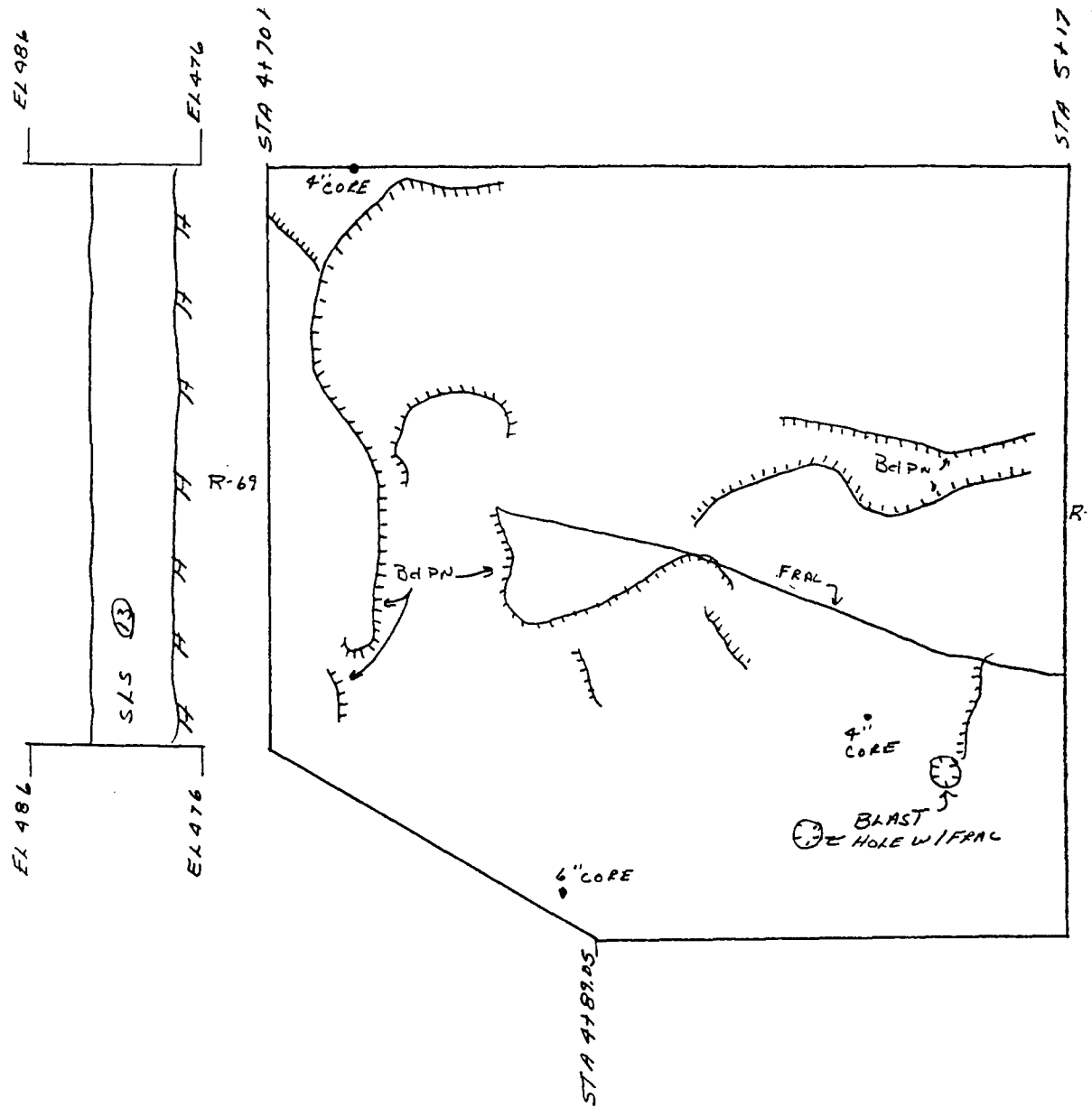
U. S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 68



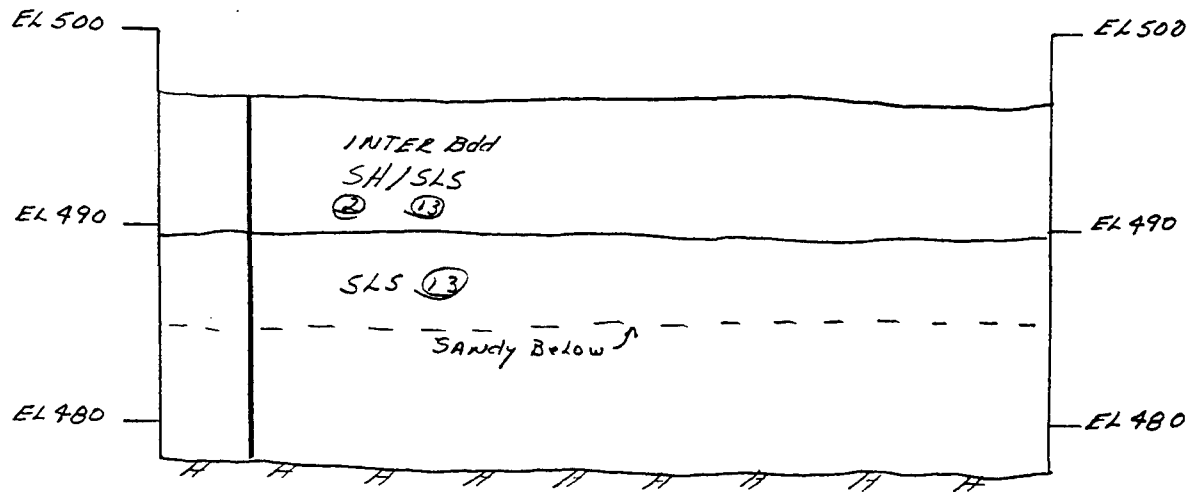
U. S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 69

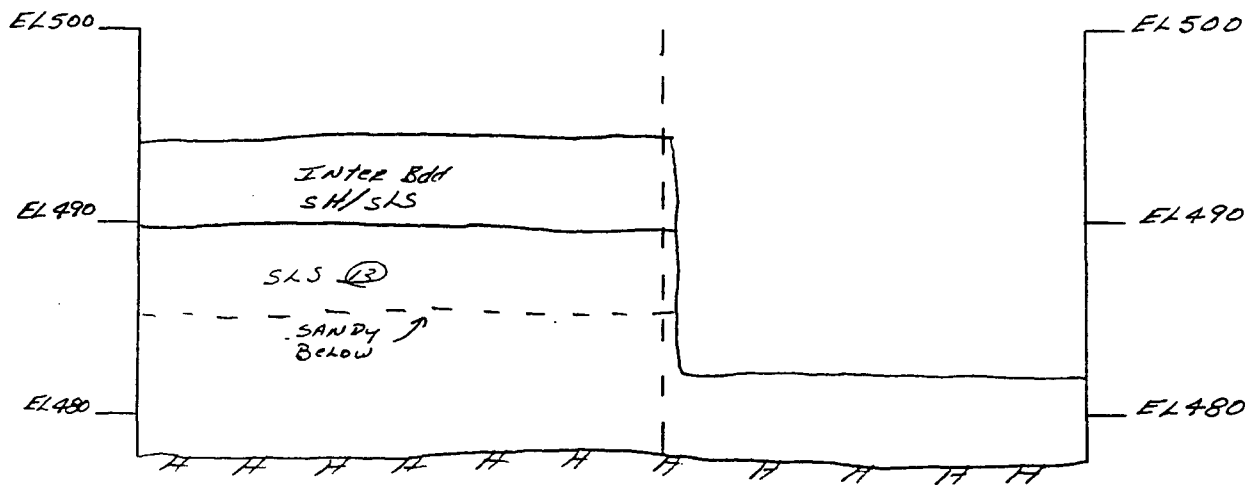


U.S. Army Corps of Engineers

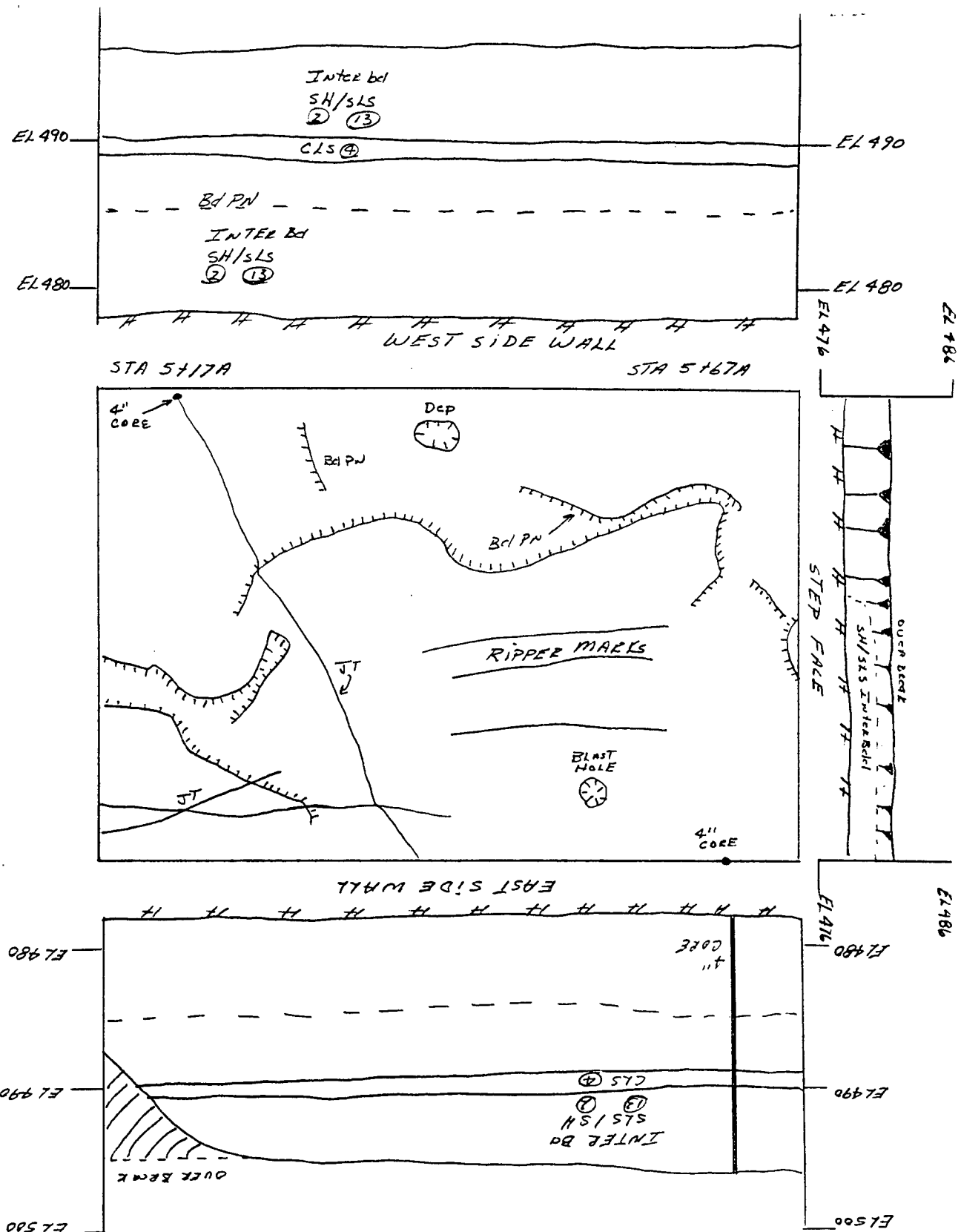
Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation Drawing  
 River Wall Monolith 70



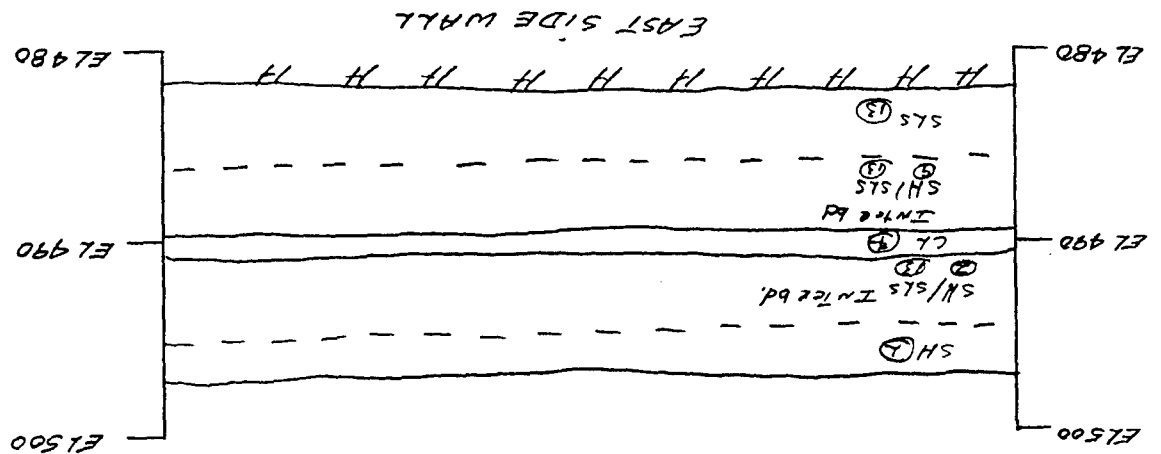
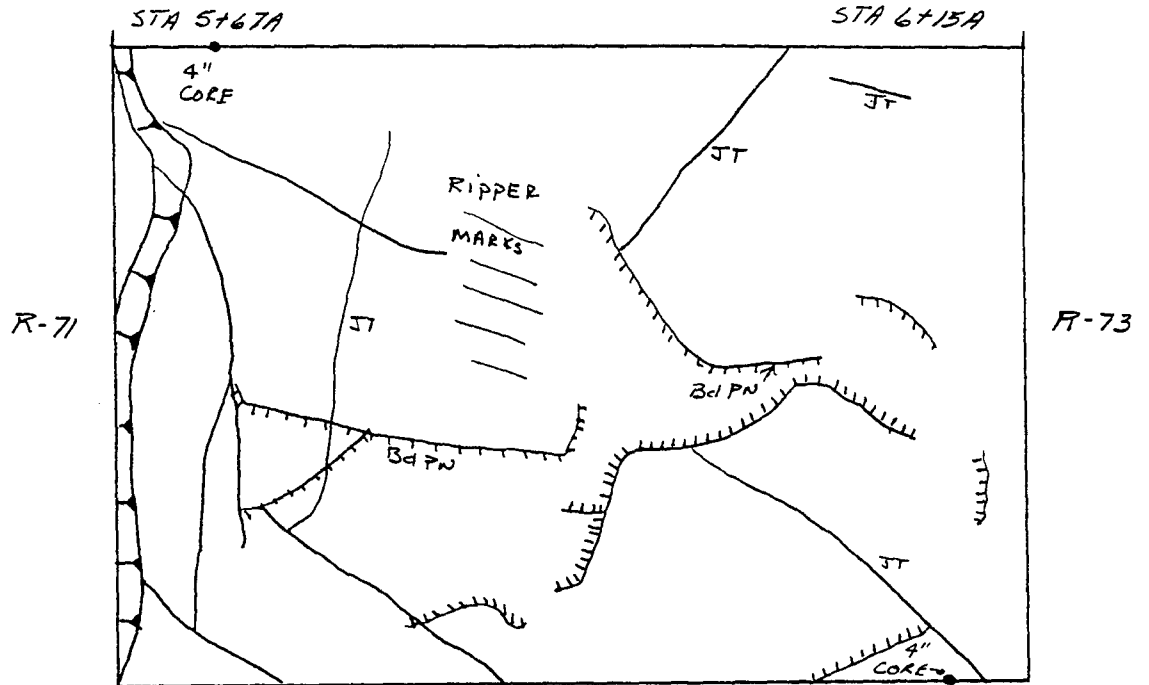
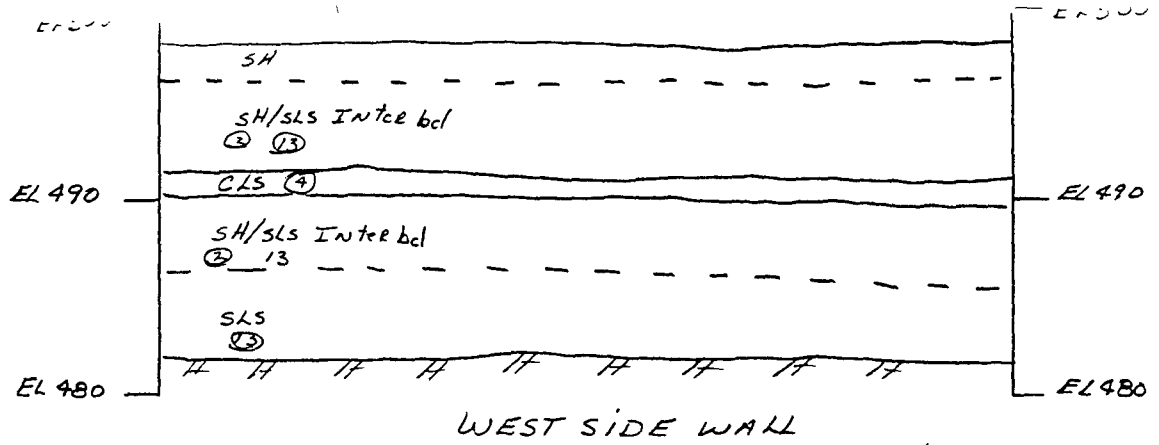
WEST SIDE WALL



EAST SIDE WALL



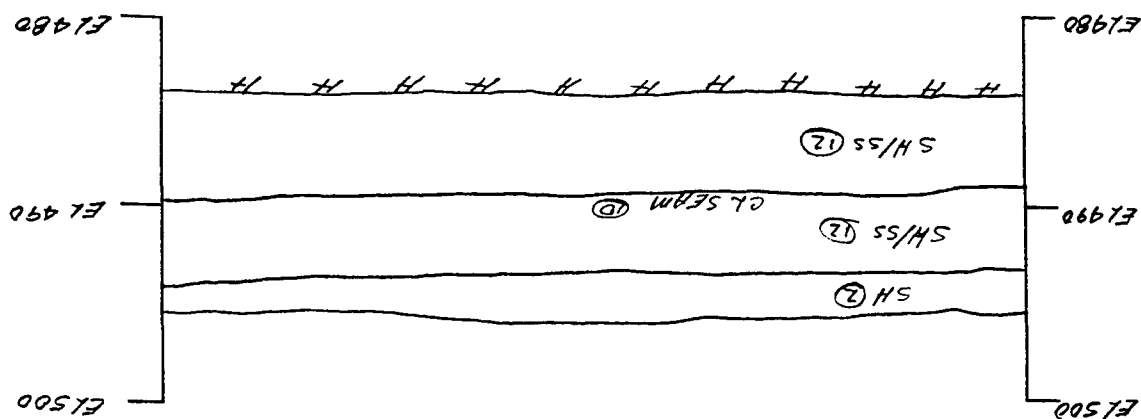
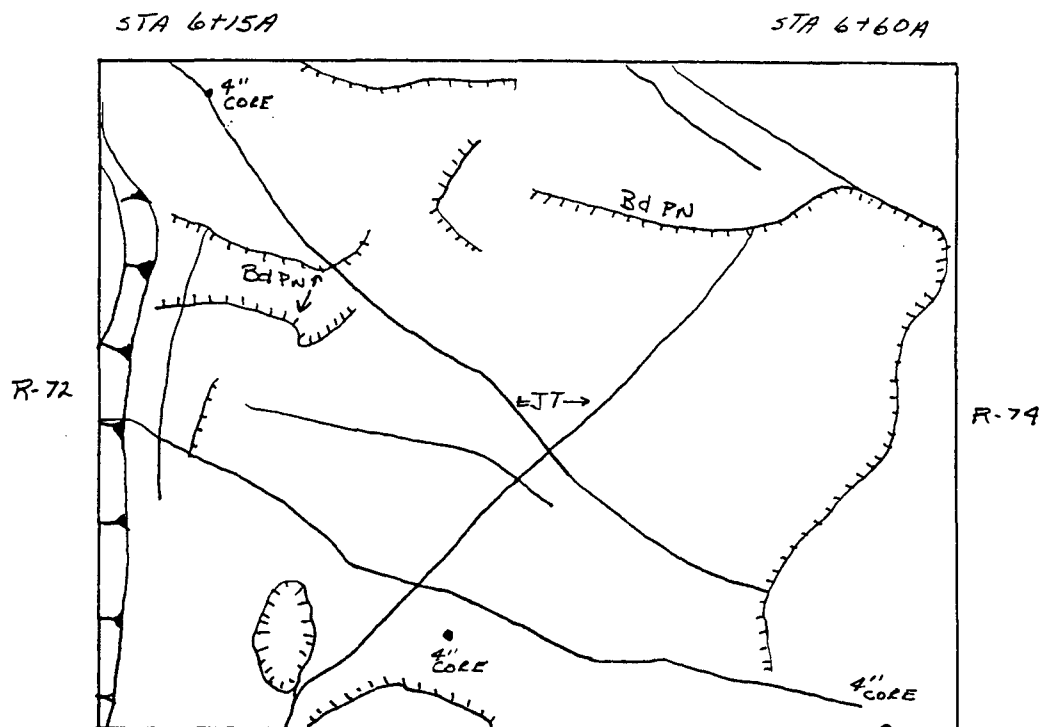
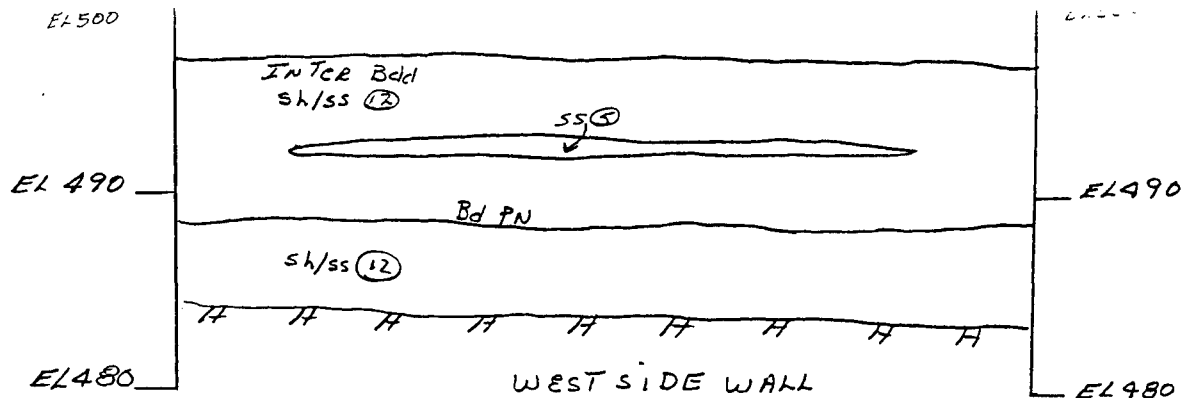
U.S. Army Corps of Engineers  
 Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation Drawing  
 River Wall Monolith 71



U.S. Army Corps of Engineers

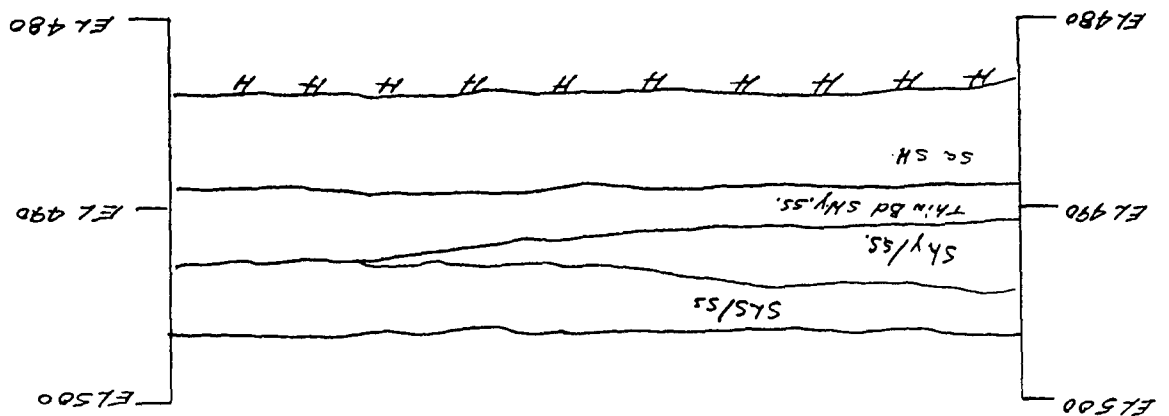
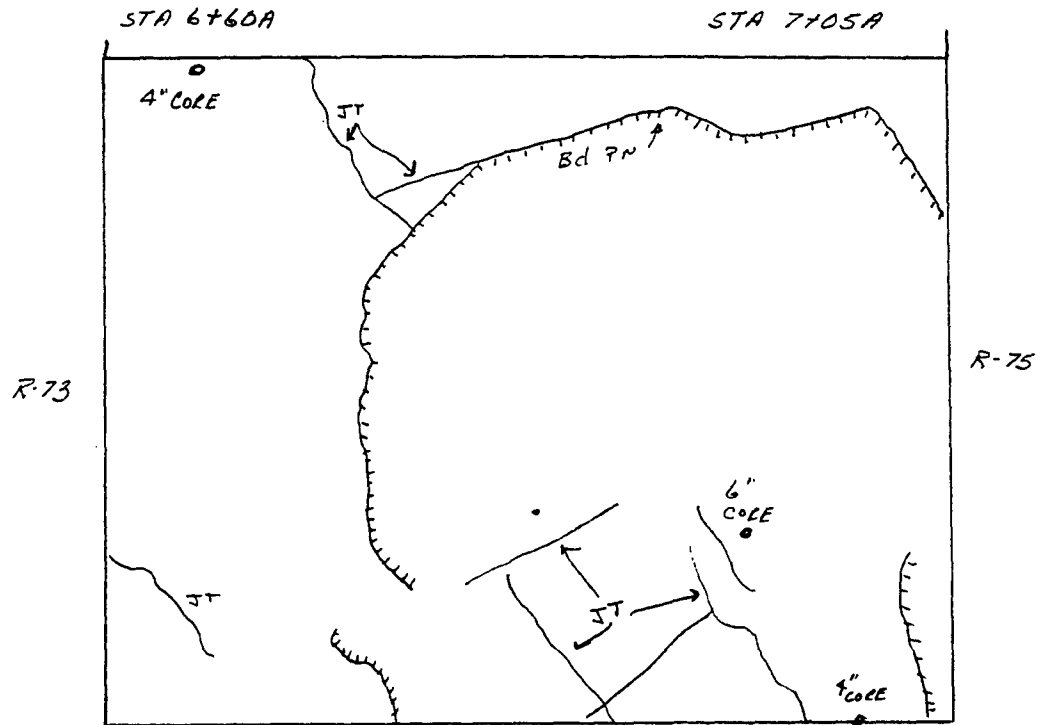
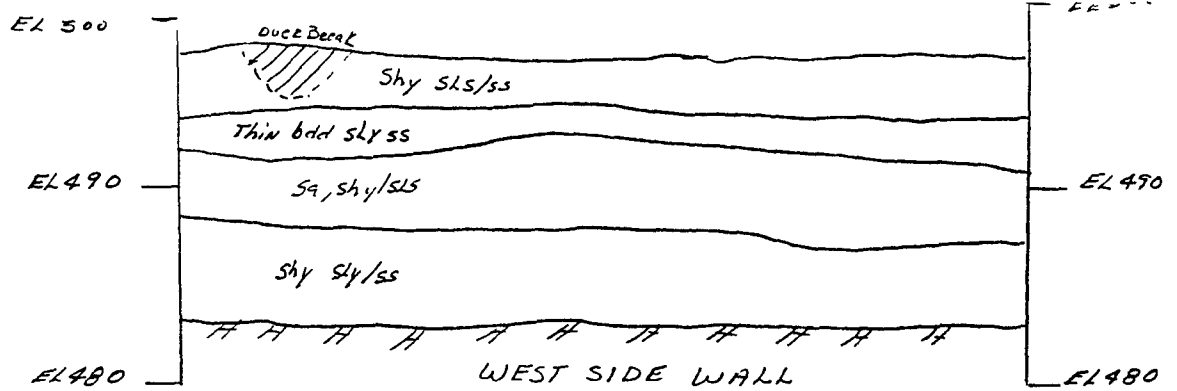
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Wall Monolith 72





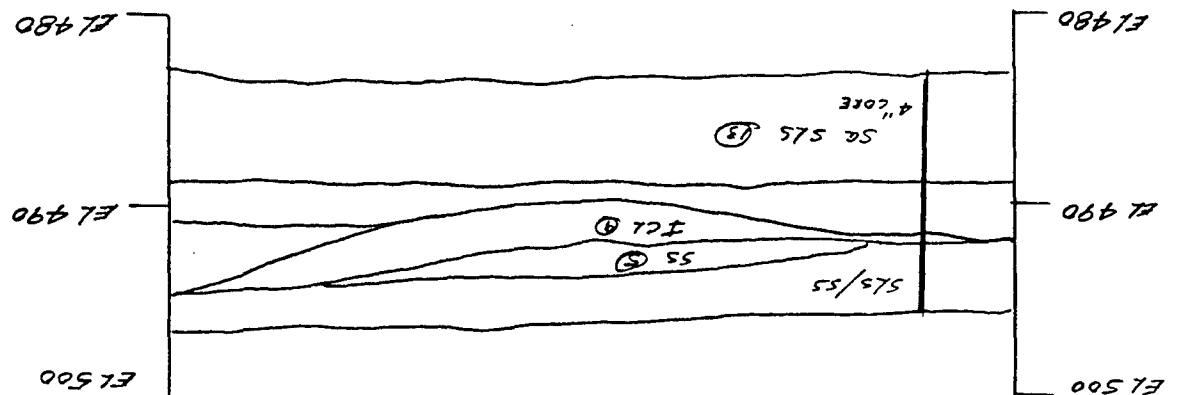
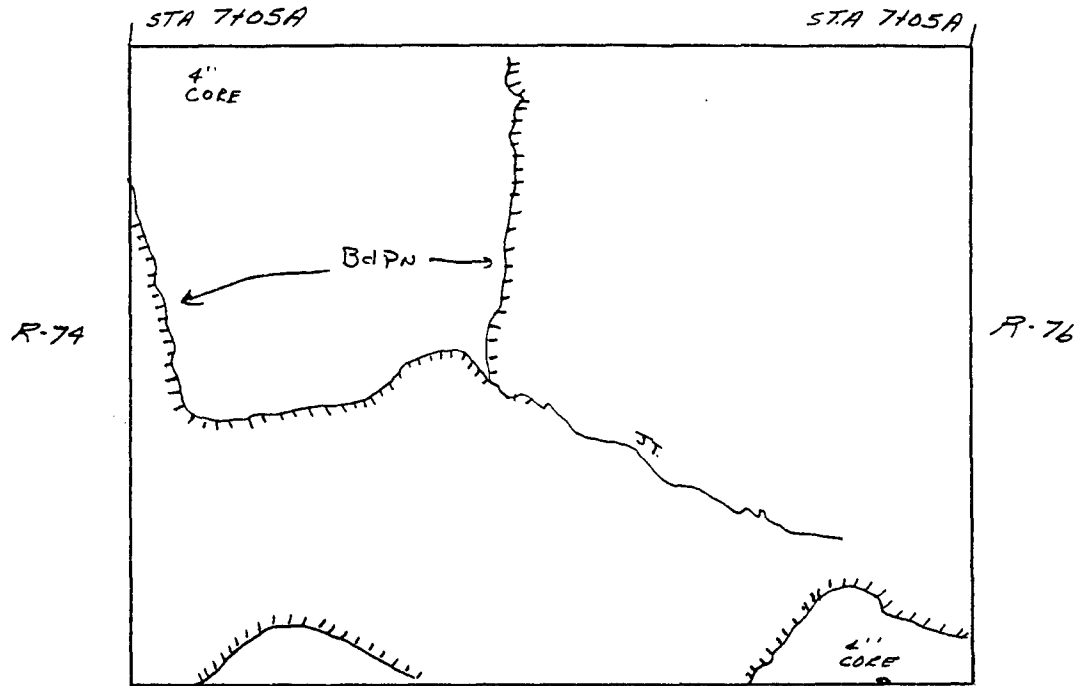
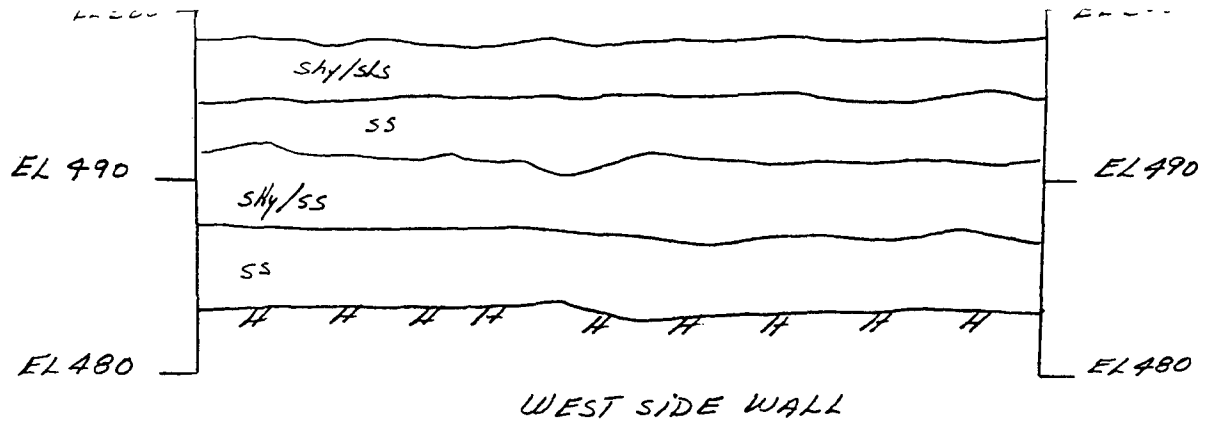
U.S. Army Corps of Engineers

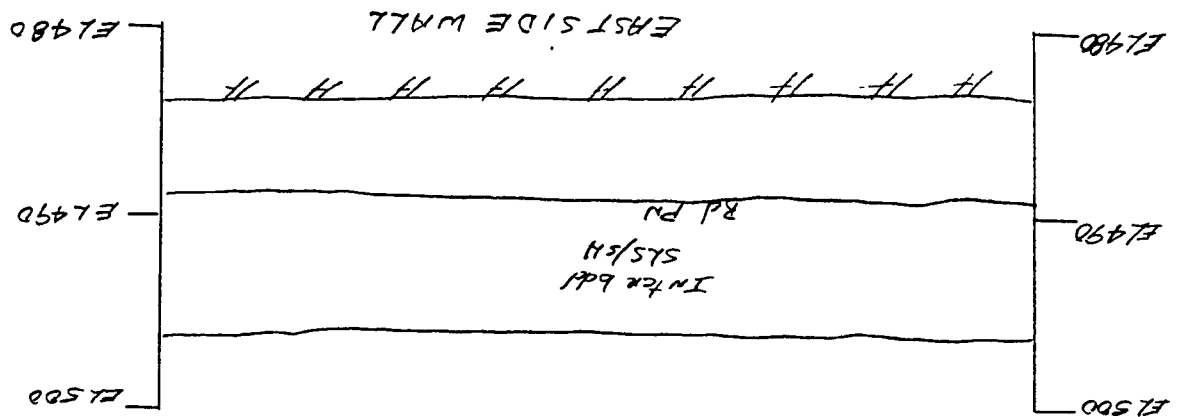
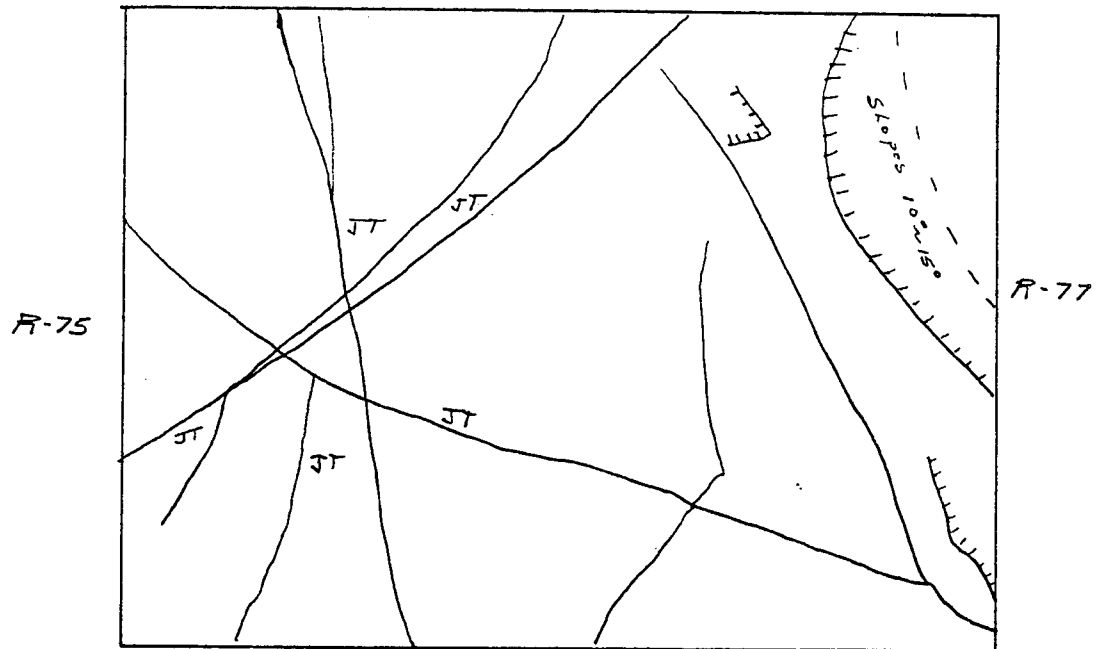
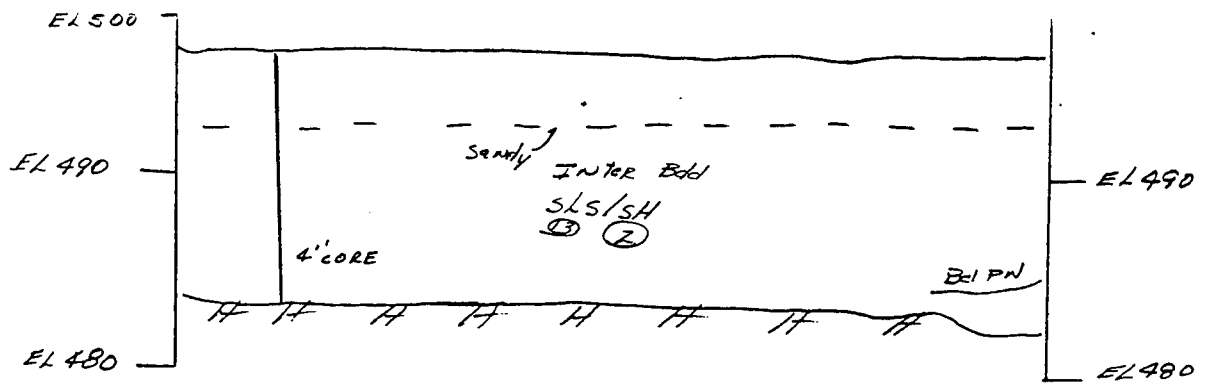
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 73

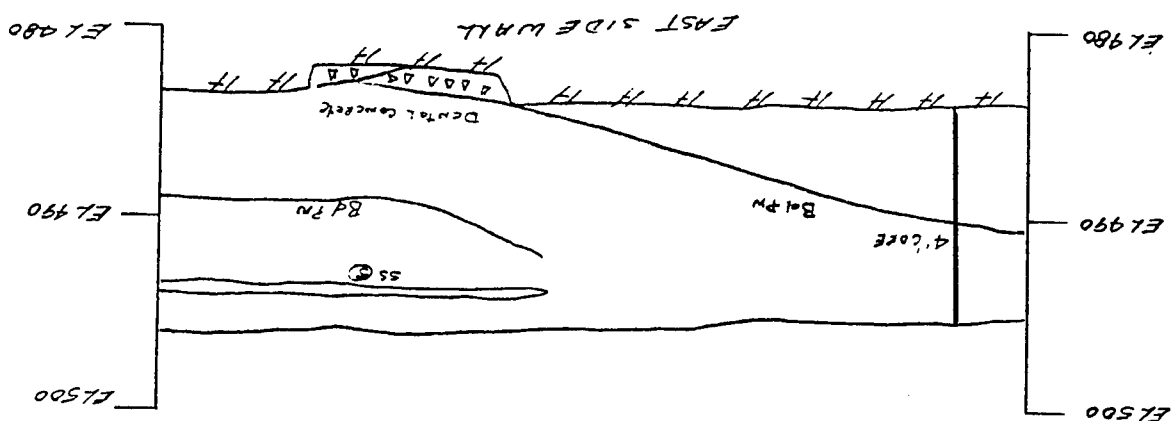
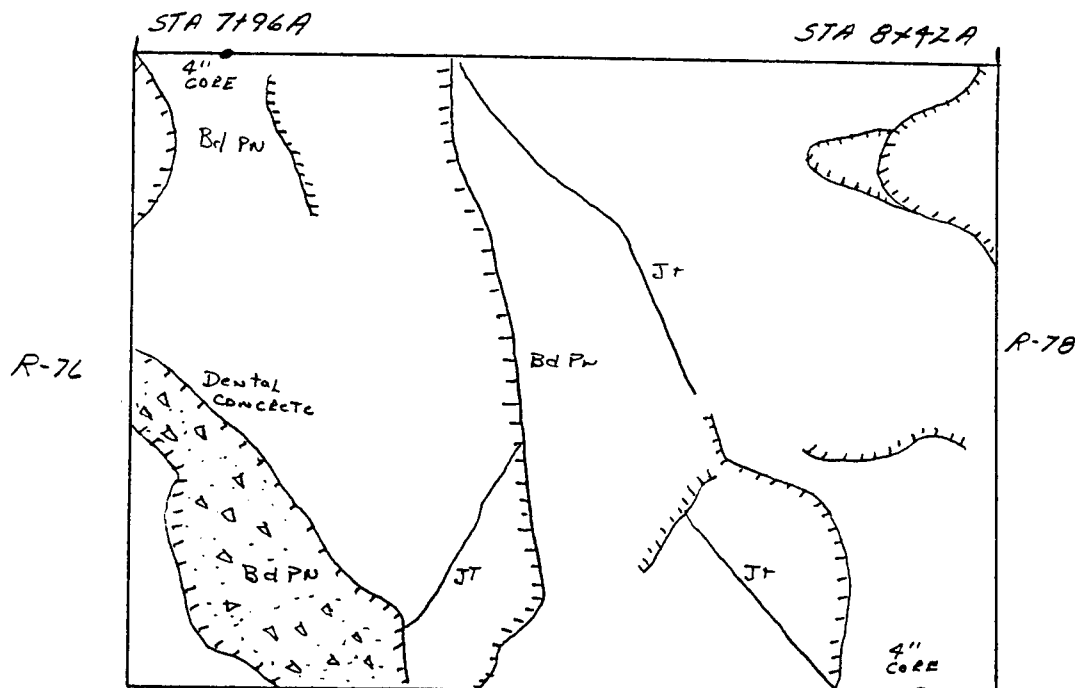
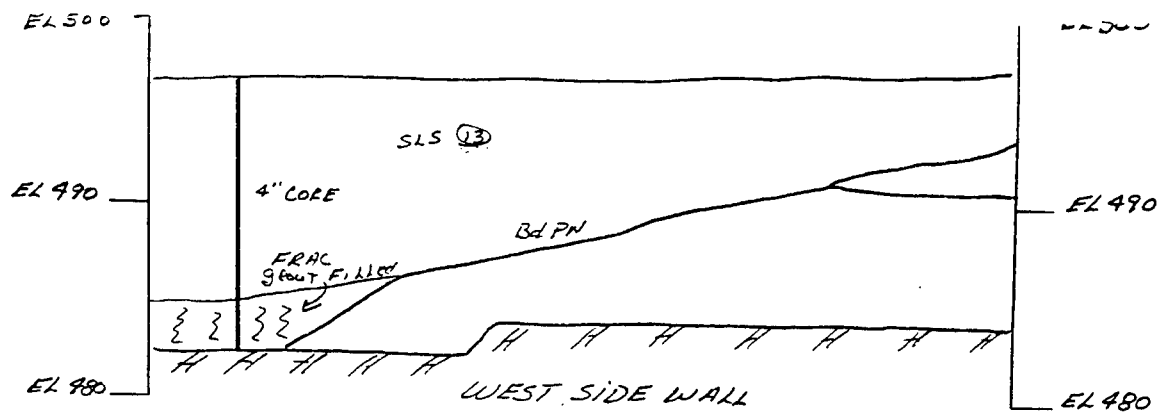


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 74







U. S. Army Corps of Engineers

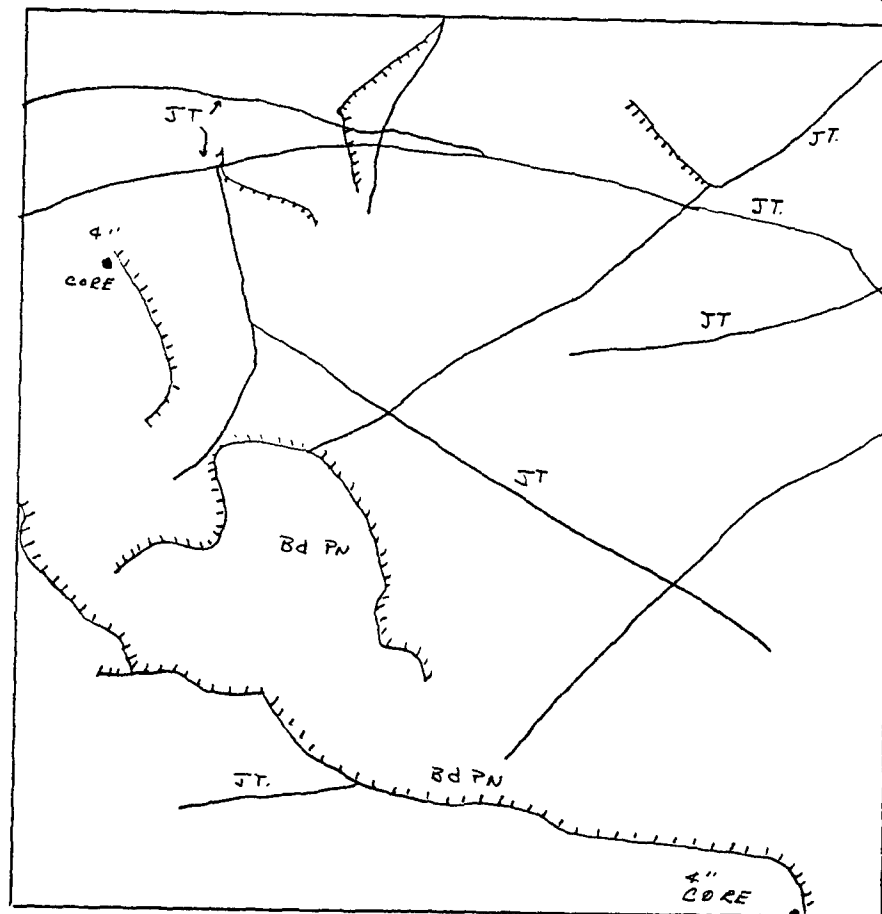
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 77

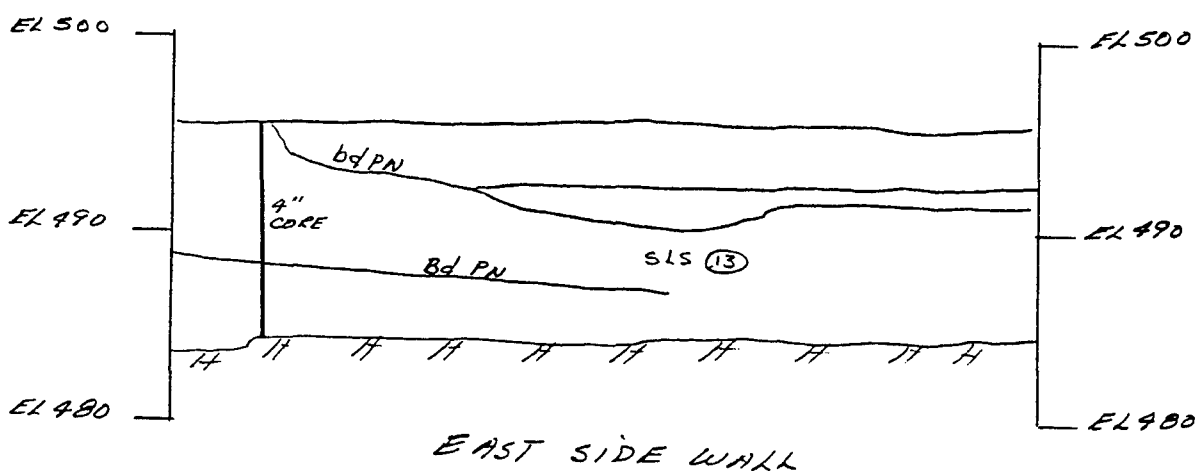
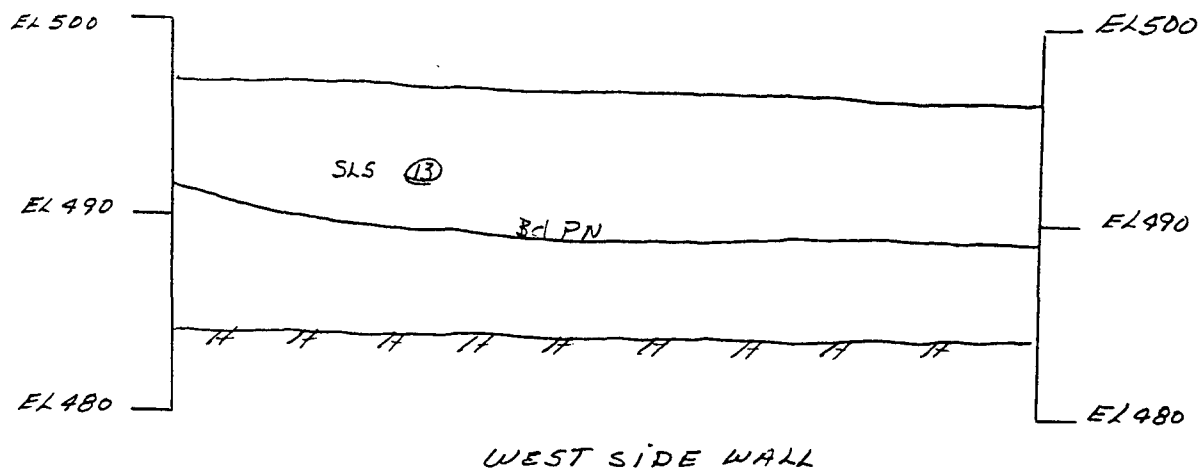
STA 8+42

STA 8+88A

R-77

R-79



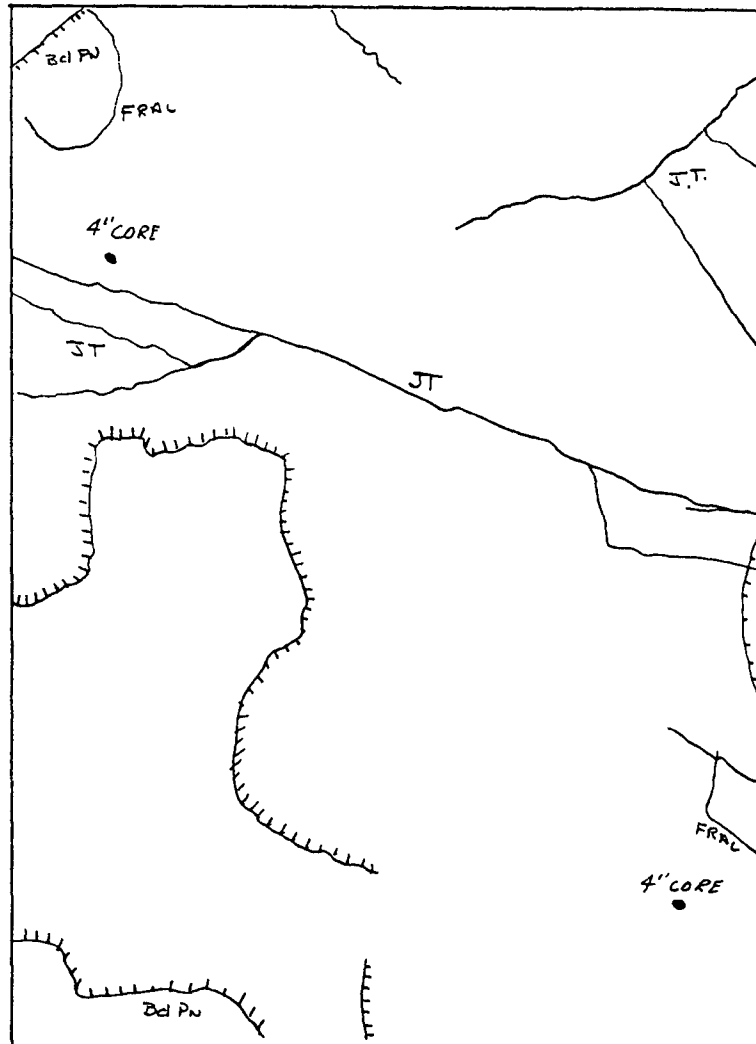


STA 8+42.2 A

STA 9+28.9 A

R-78

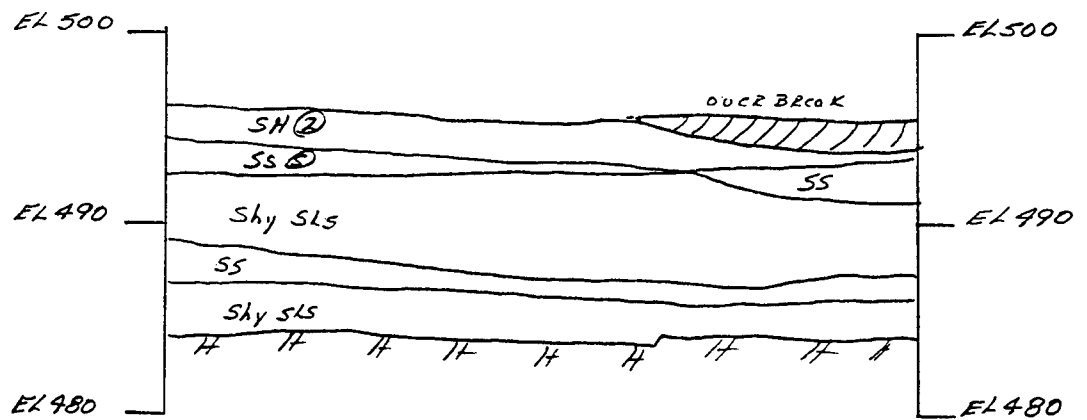
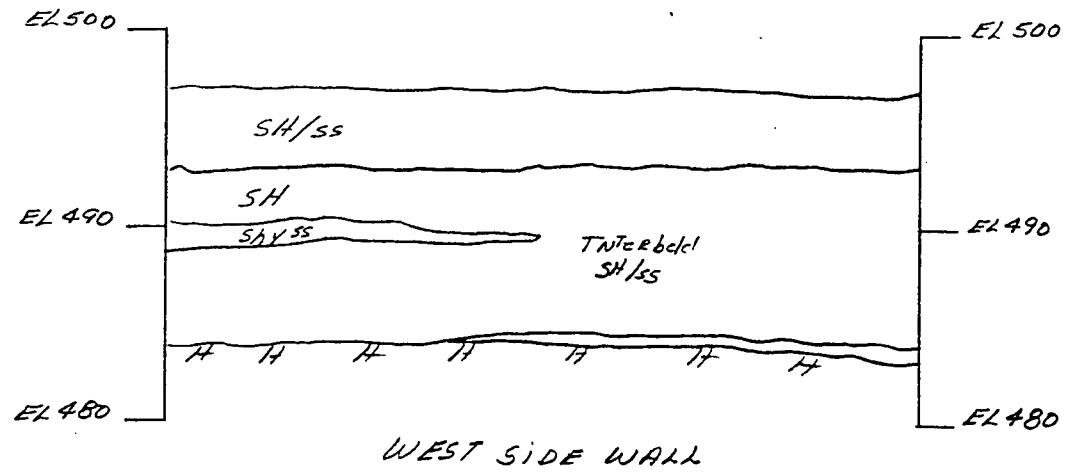
R-80

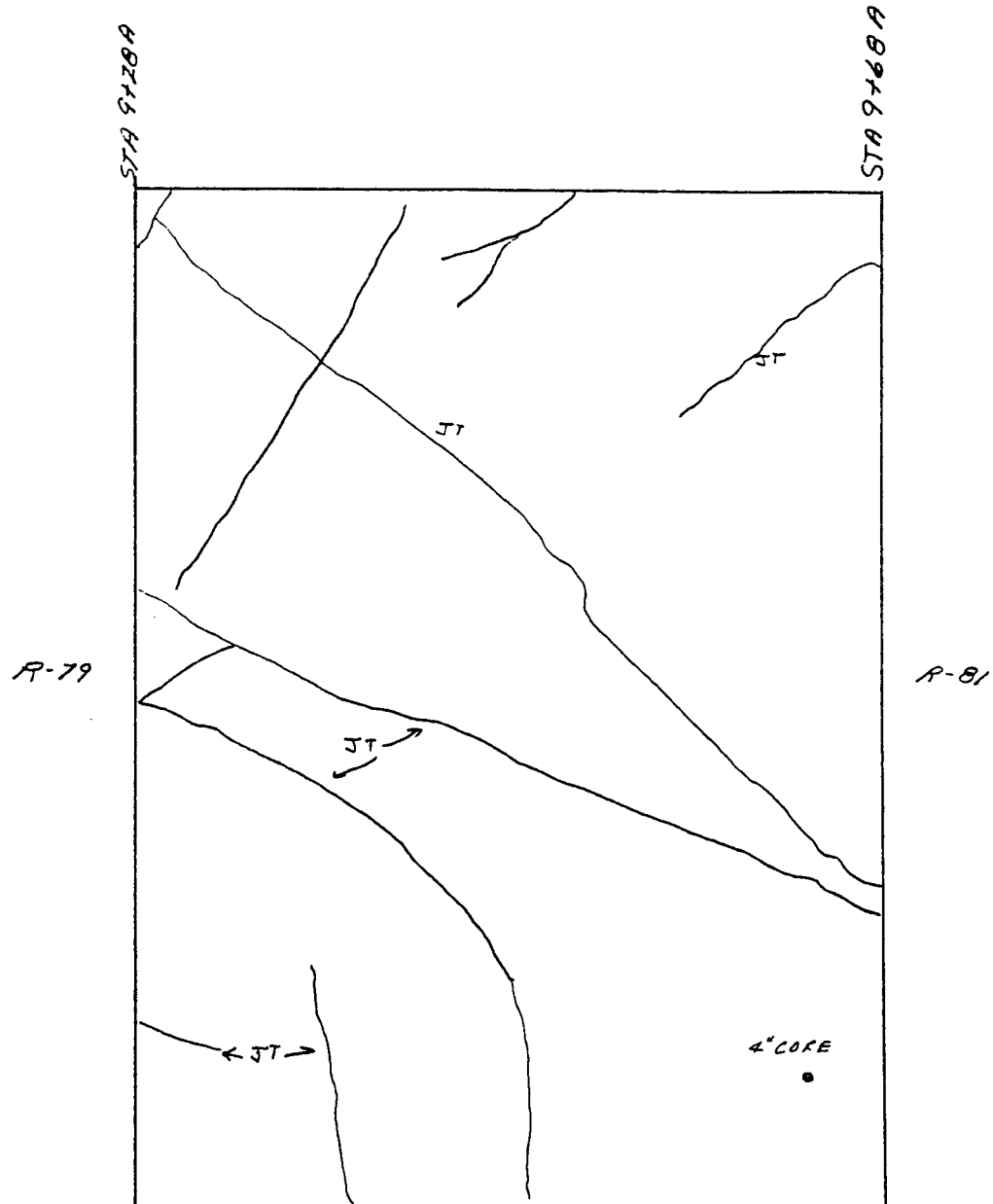


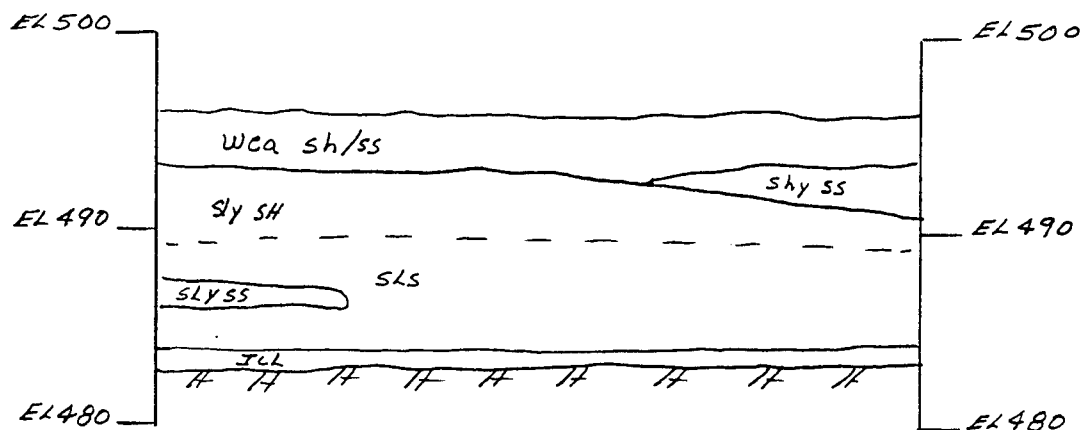
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 79

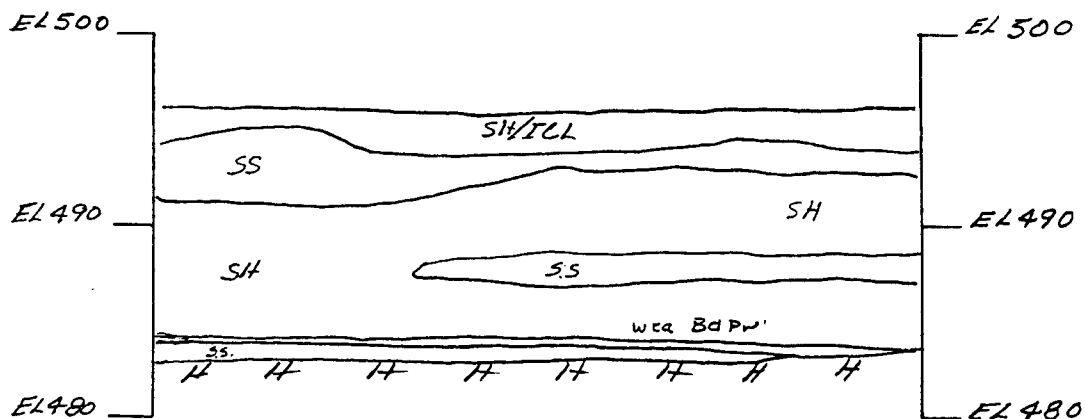




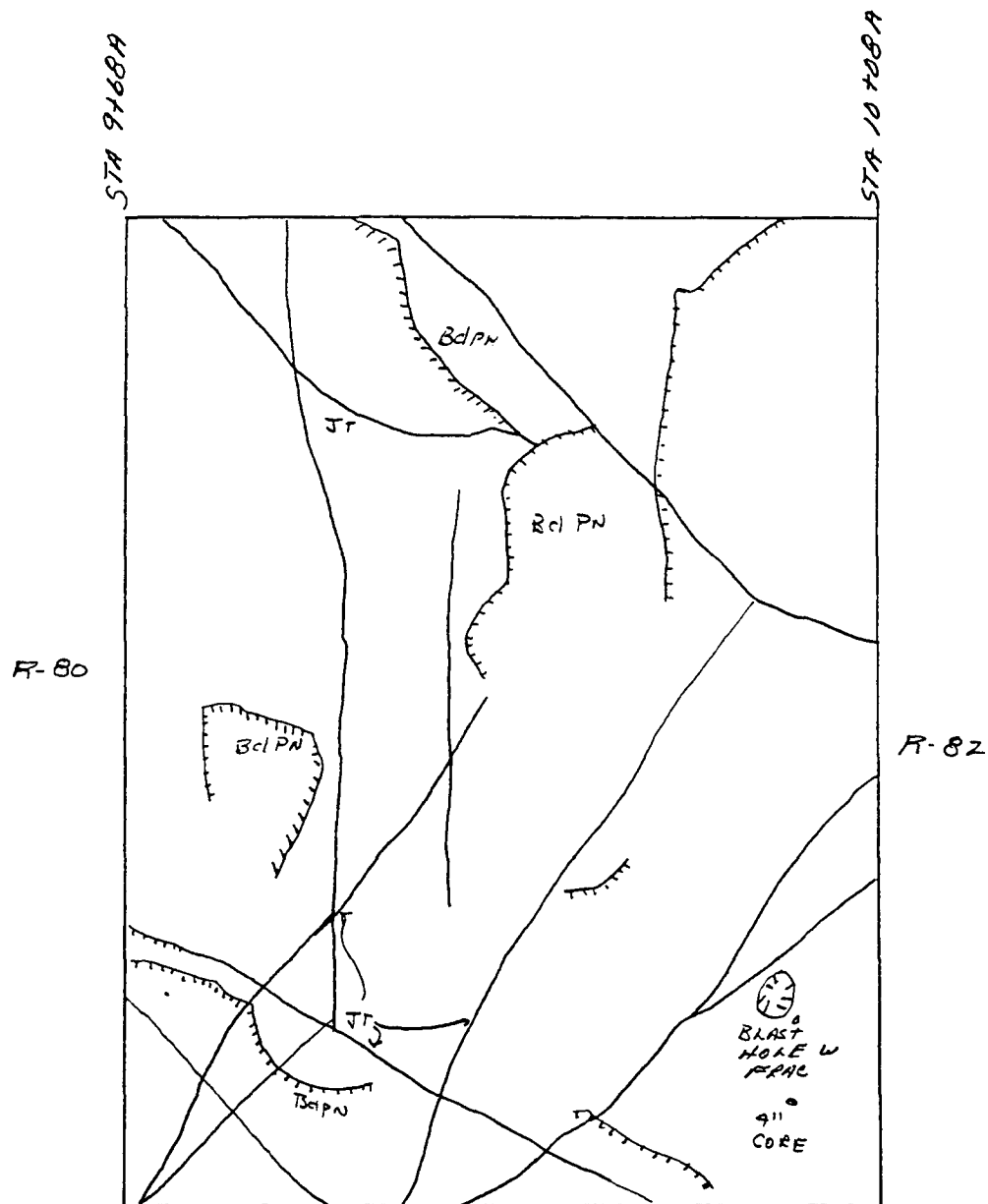


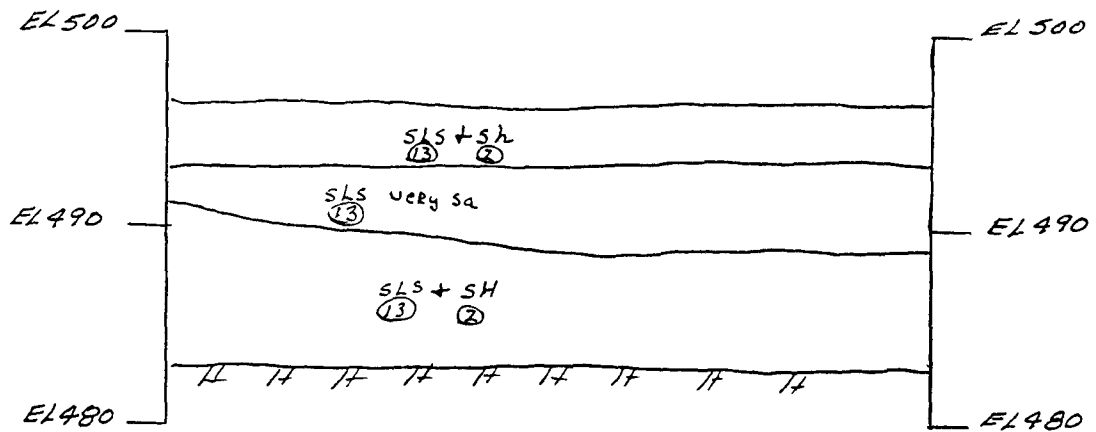


WEST SIDE WALL

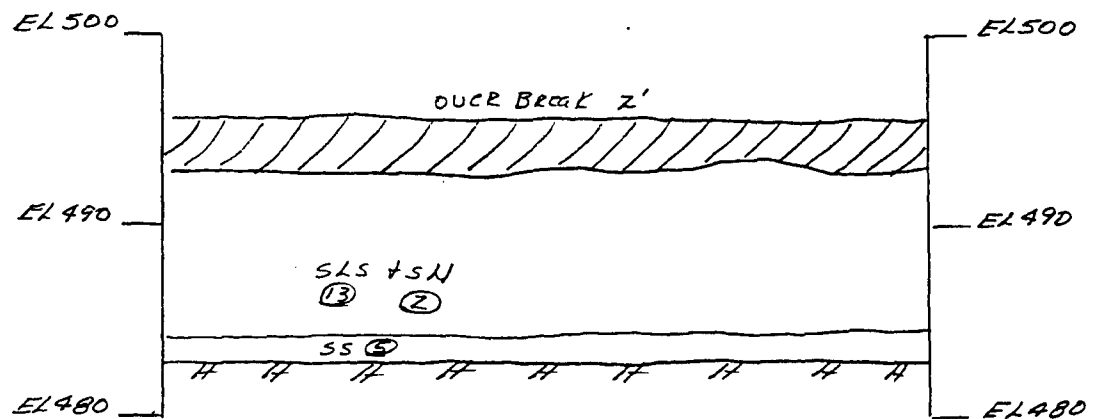


EAST SIDE WALL

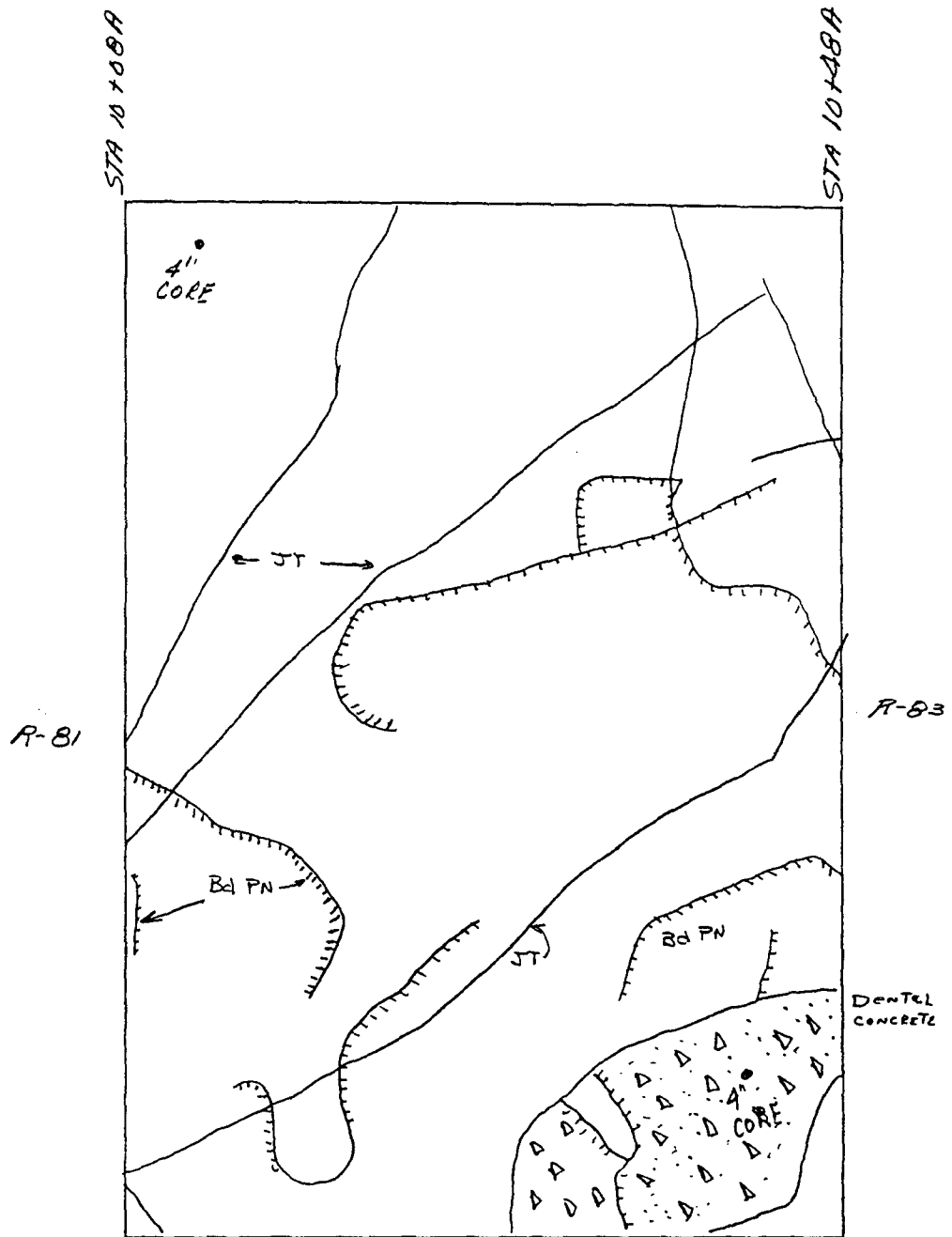


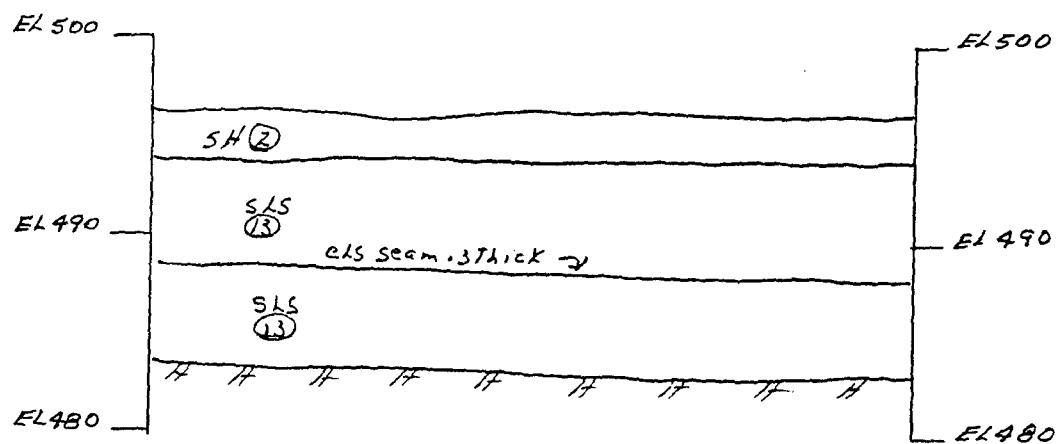


WEST SIDE WALL

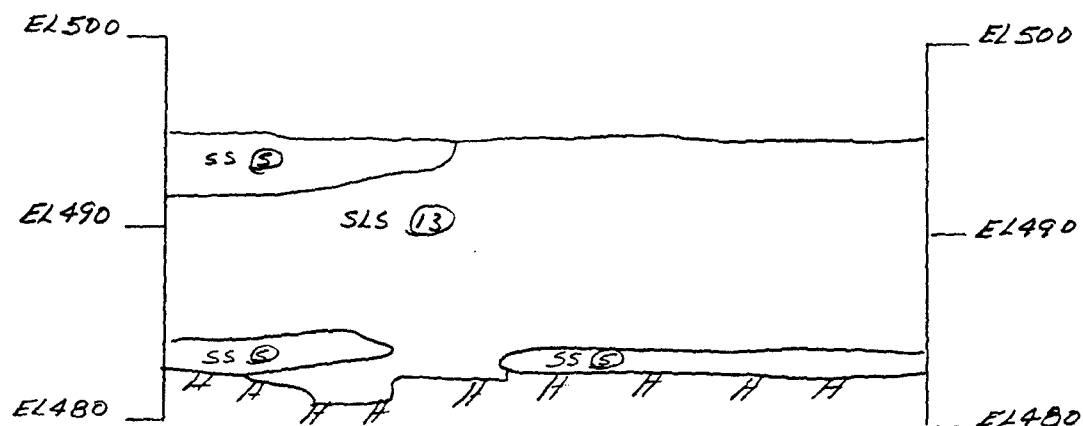


EAST SIDE WALL



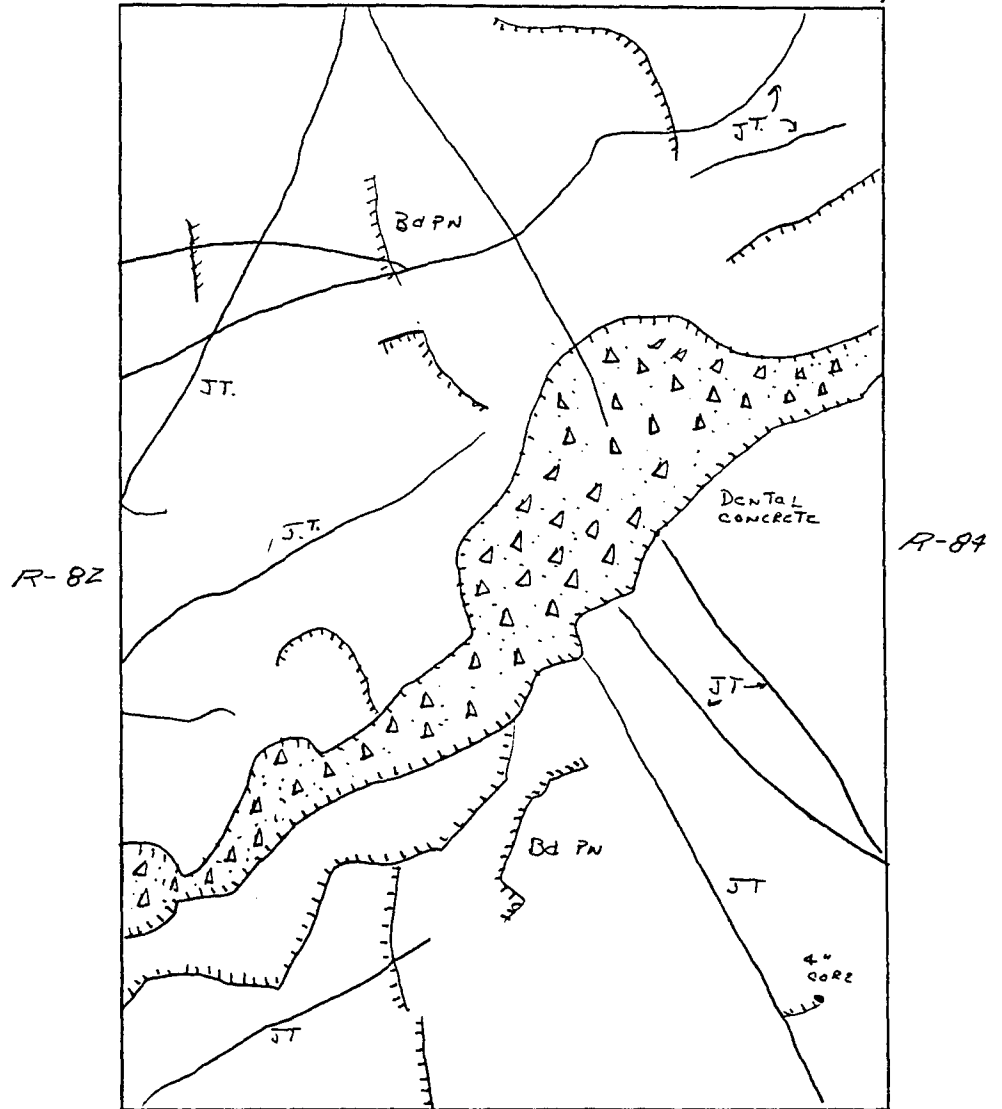


WEST SIDE WALL

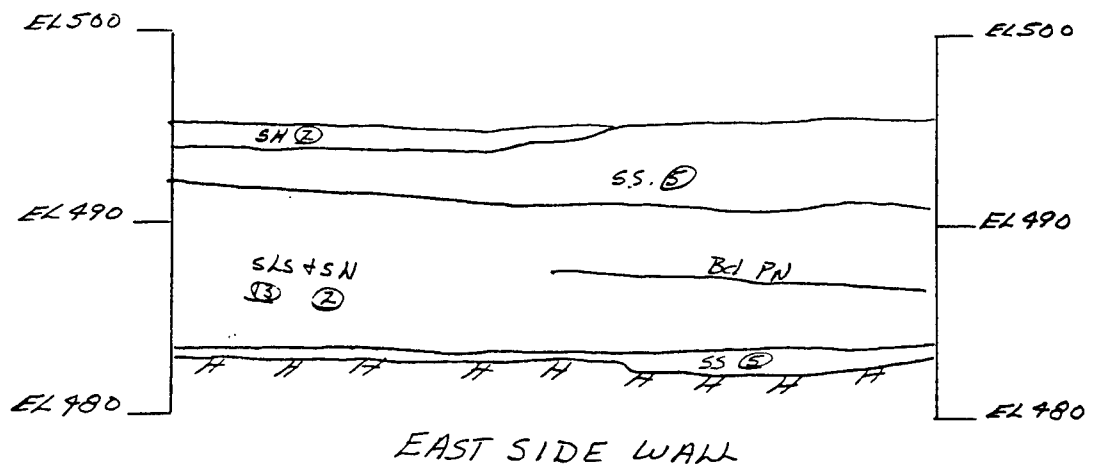
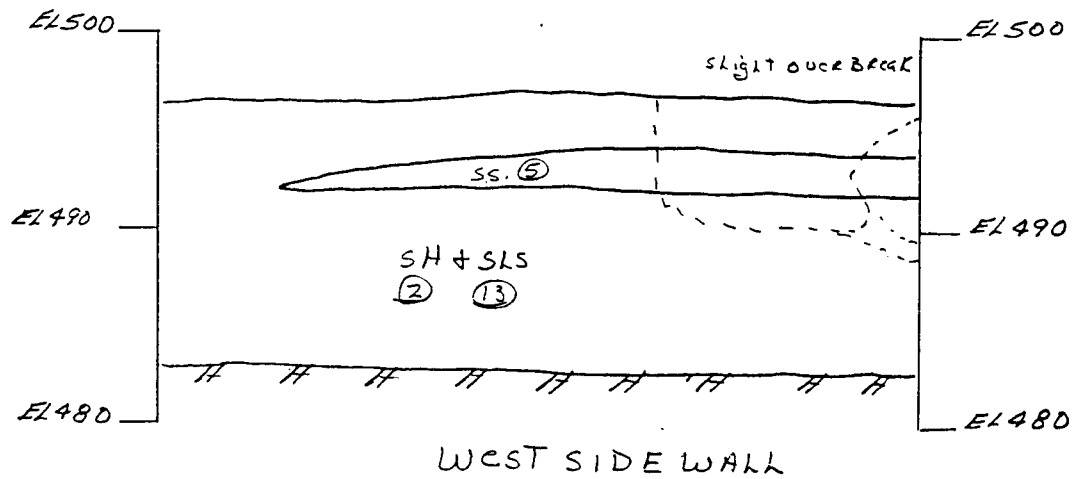


EAST SIDE WALL

STA 10+88.9





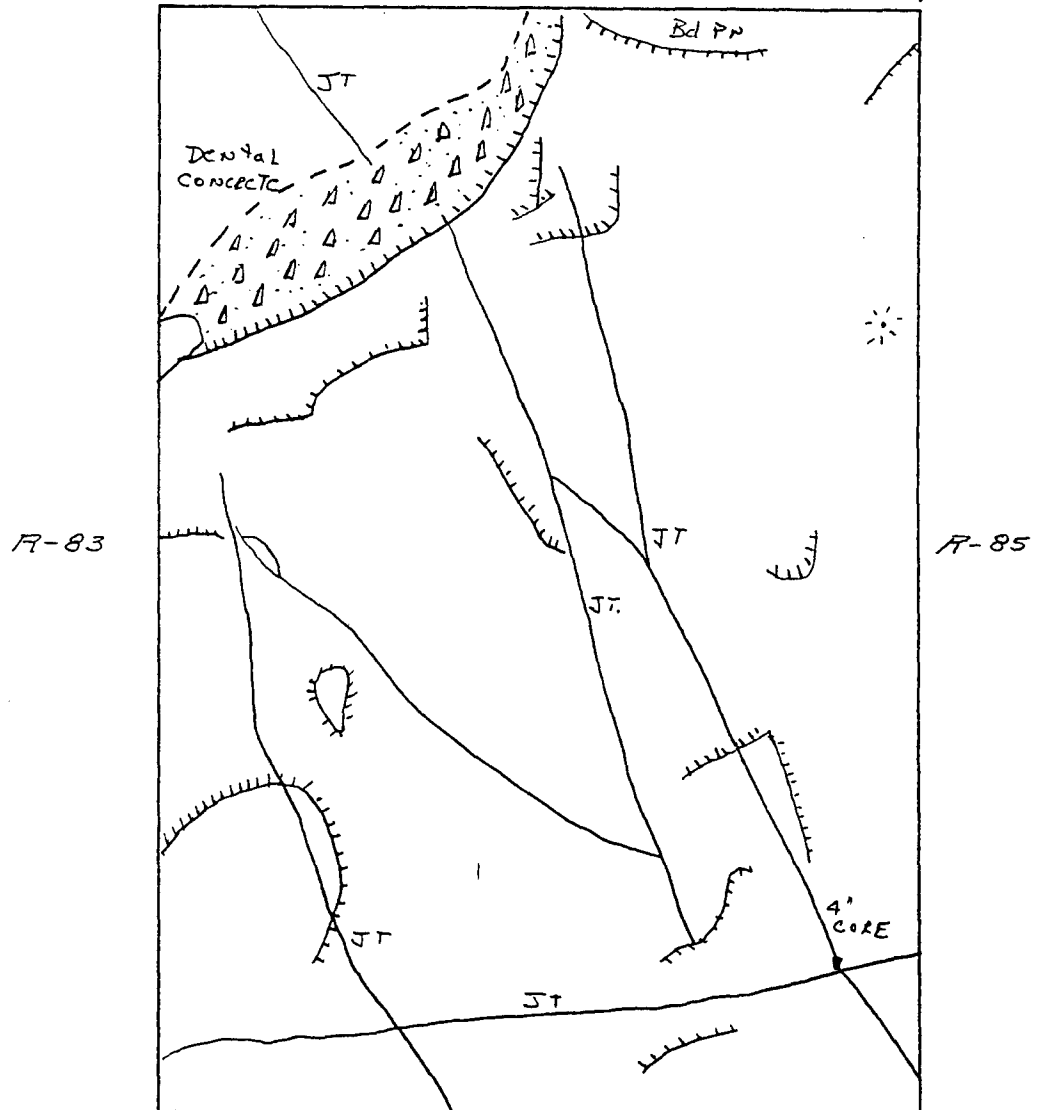


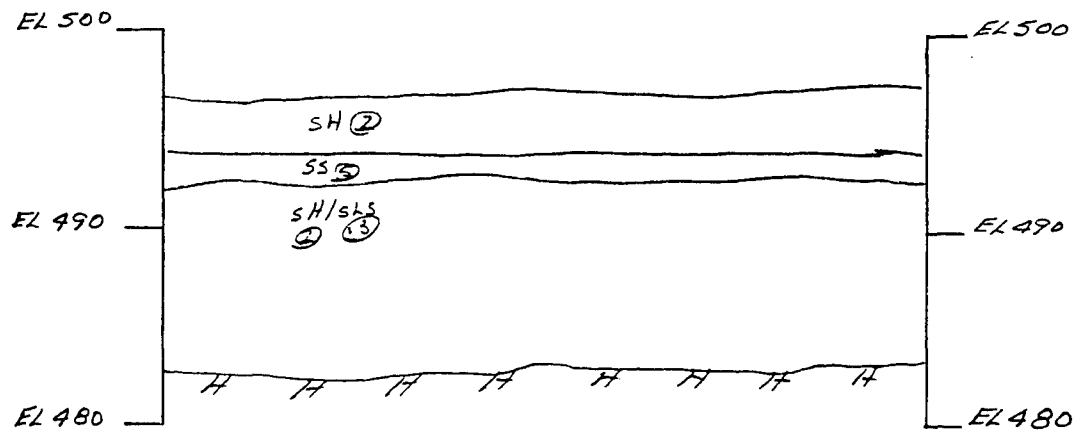
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 83

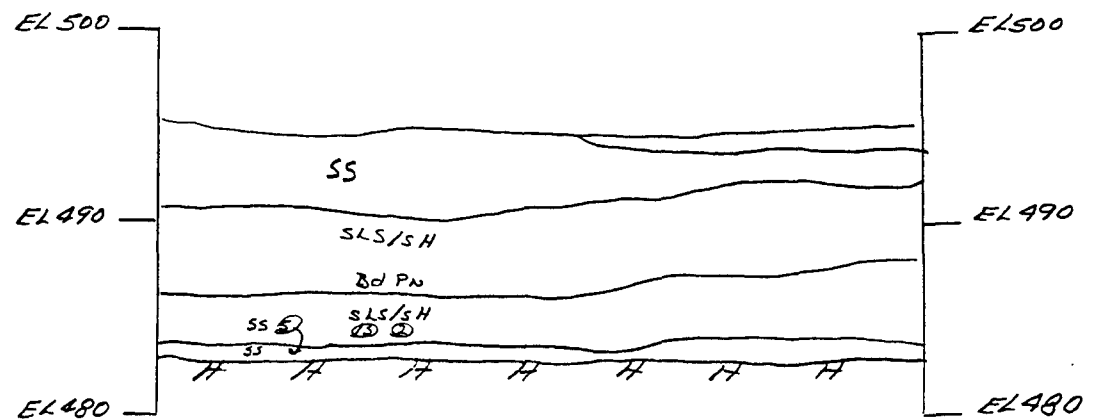
STA 10+86

STA 11+204





WEST SIDE WALL



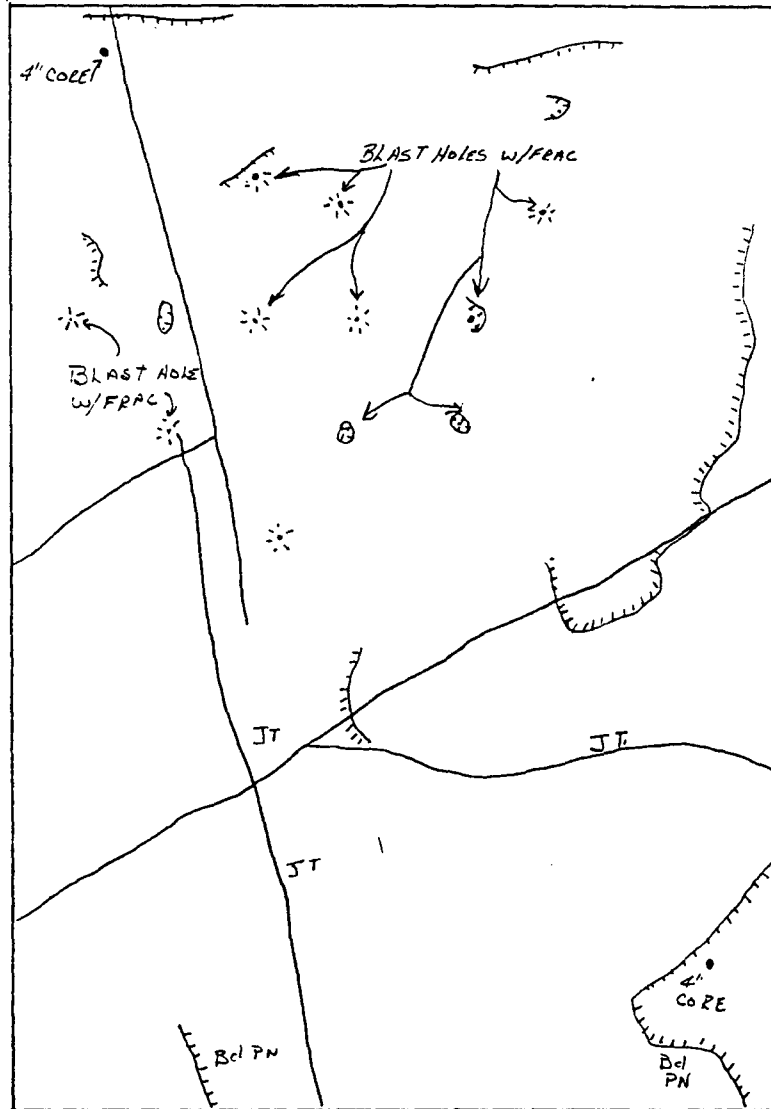
EAST SIDE WALL

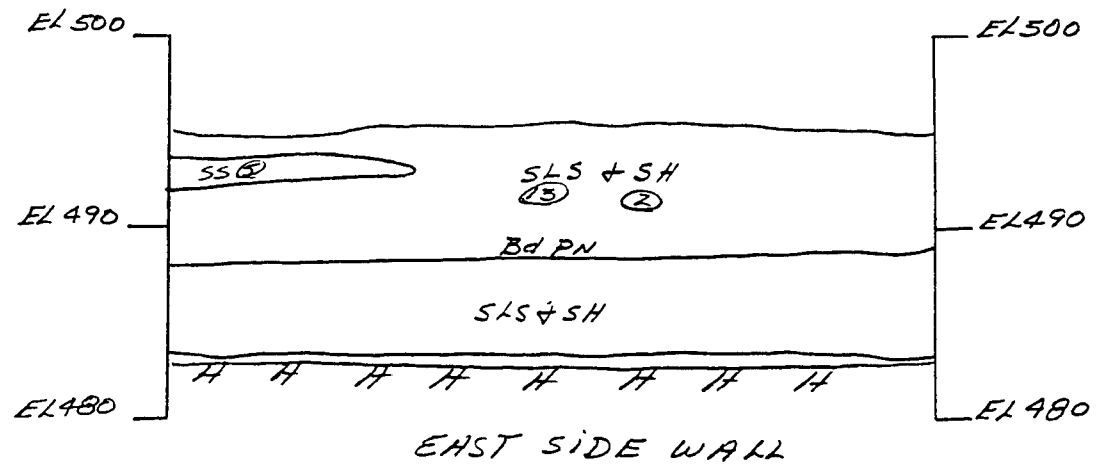
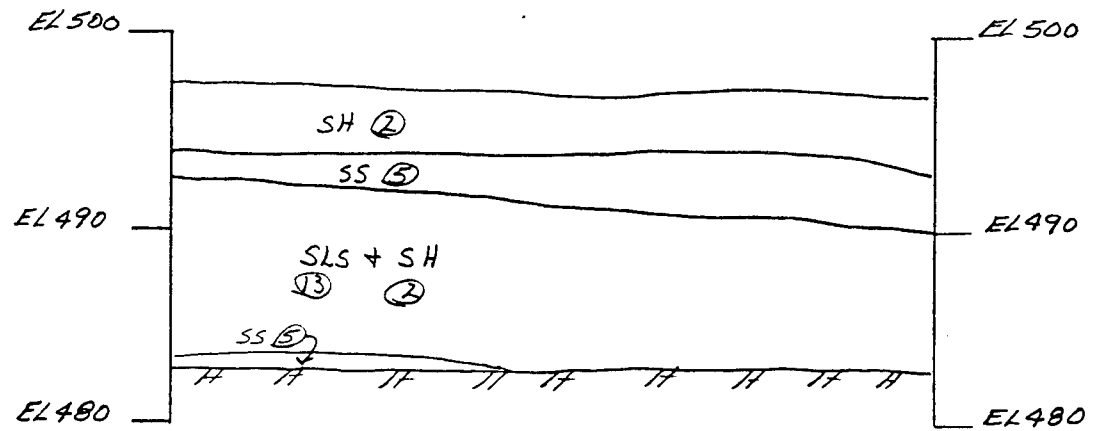
STA 11128A

STA 11168A

R-84

R-86





U.S. Army Corps of Engineers

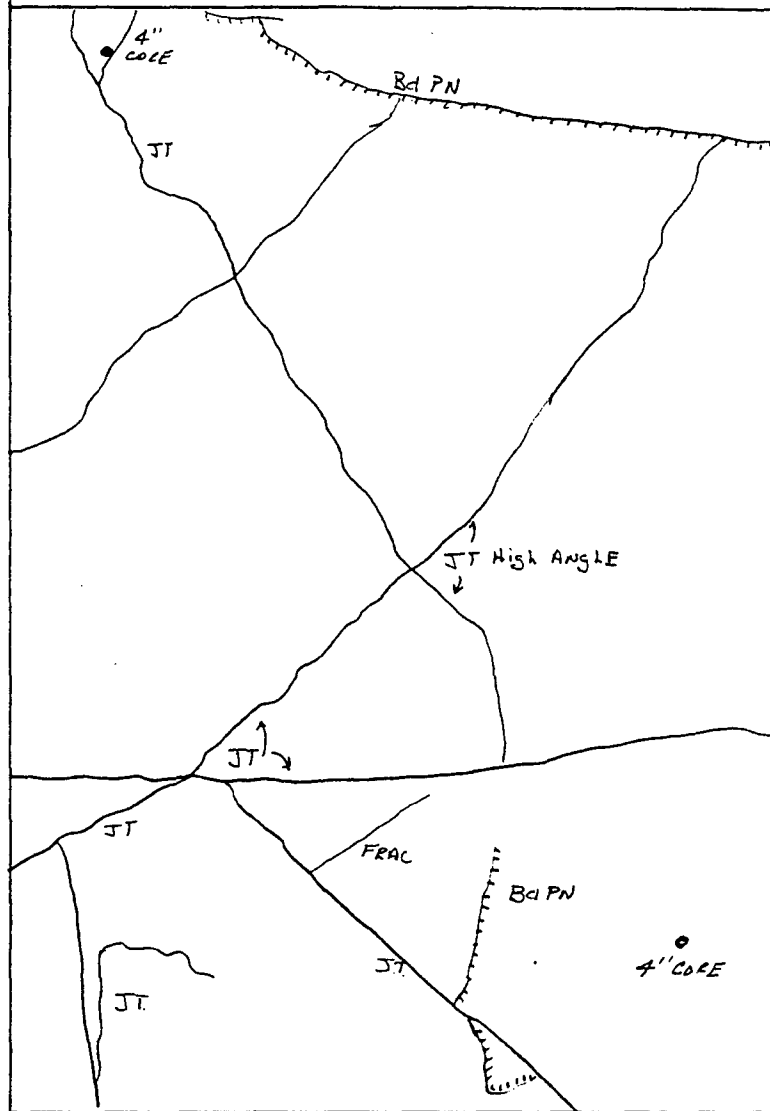
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 85

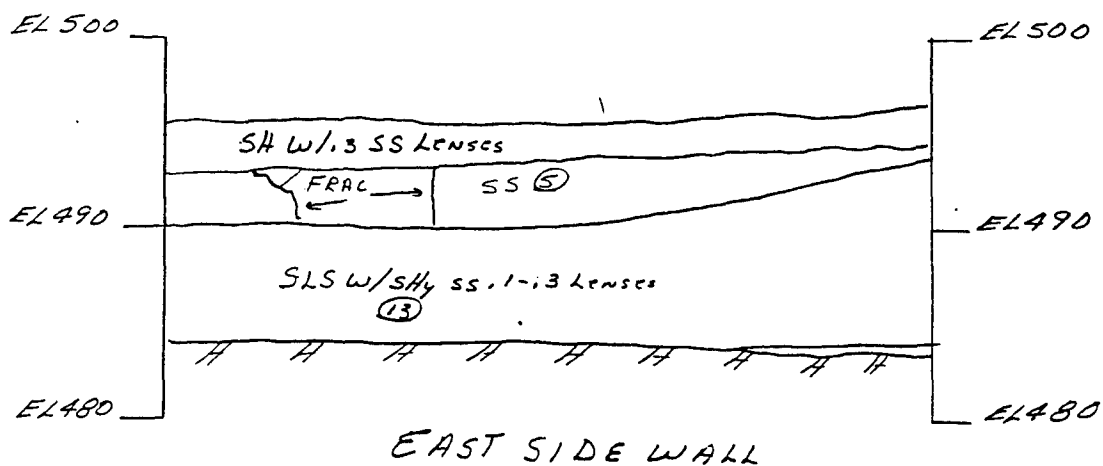
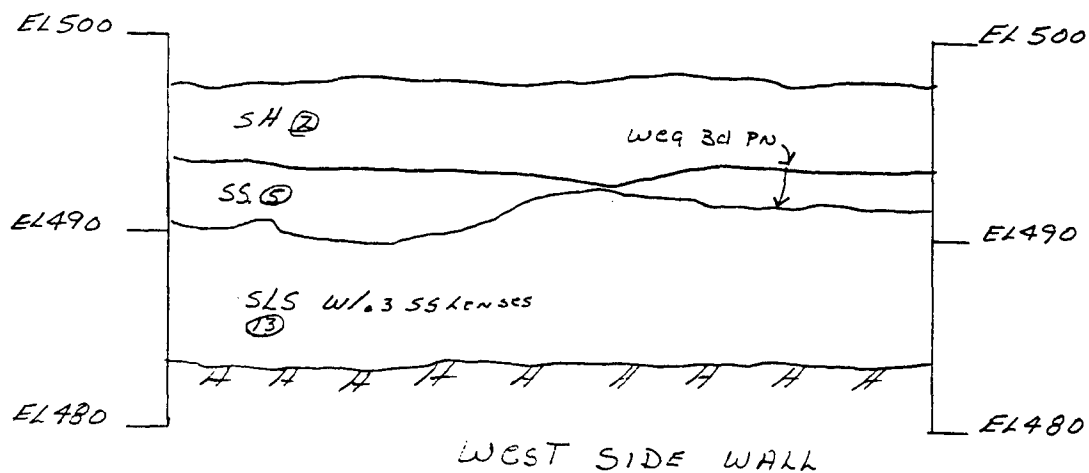
STA 11+68.9

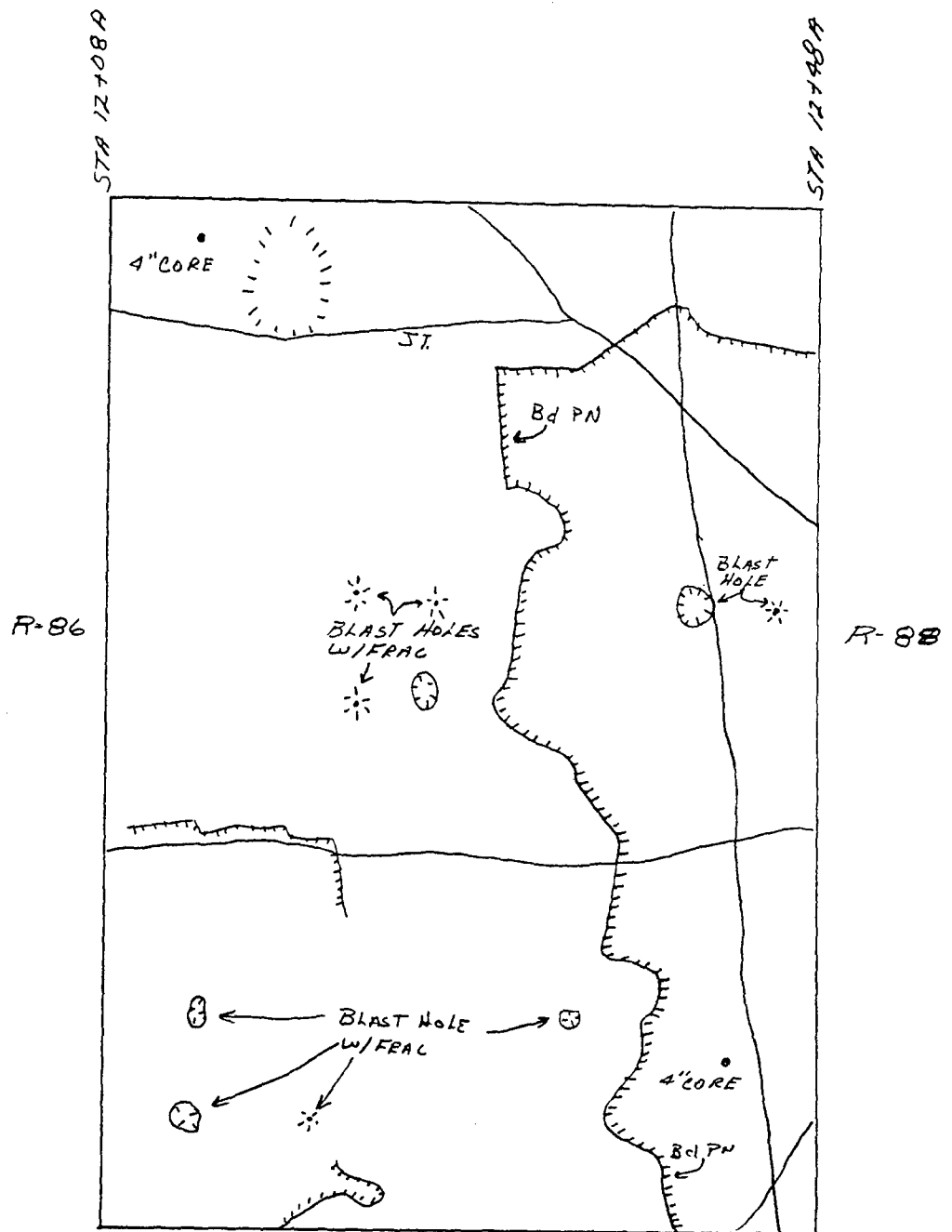
STA 12+08.9

R-85

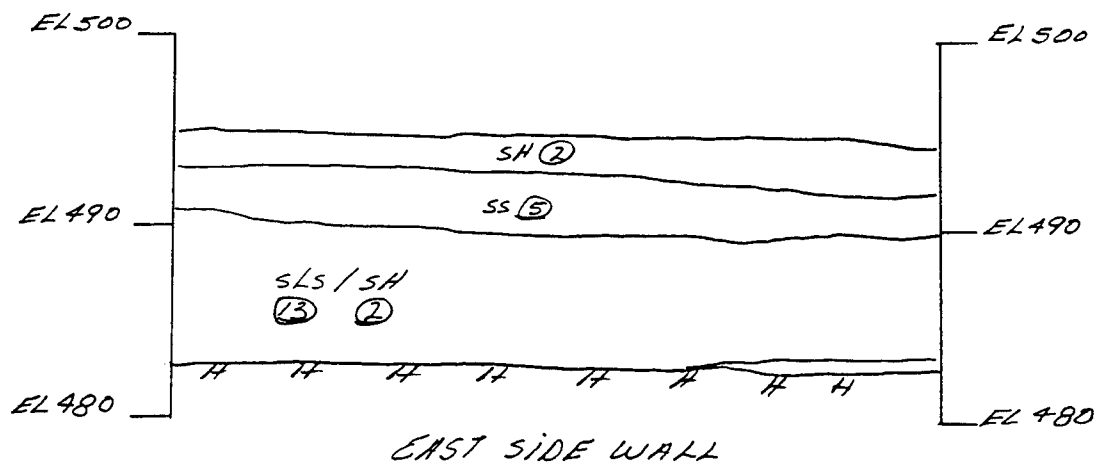
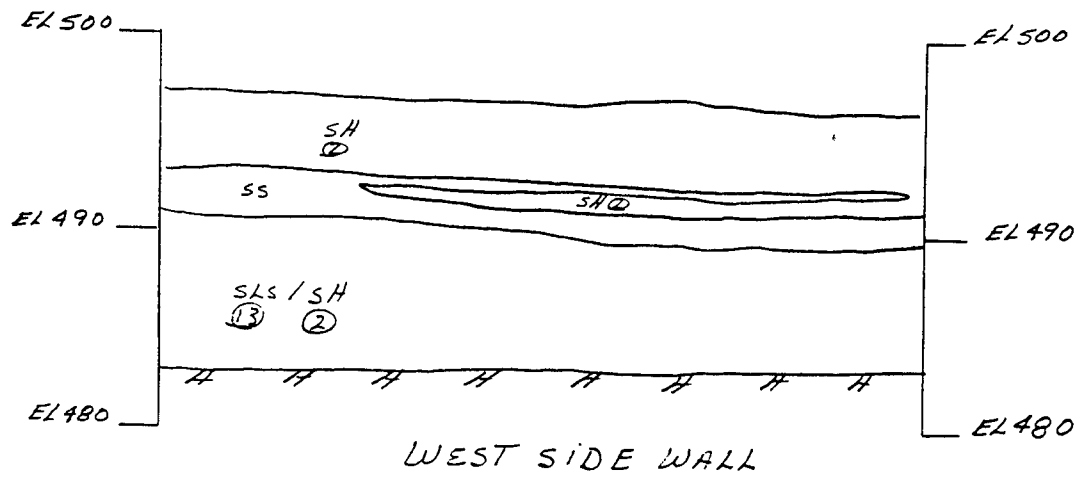
R-87

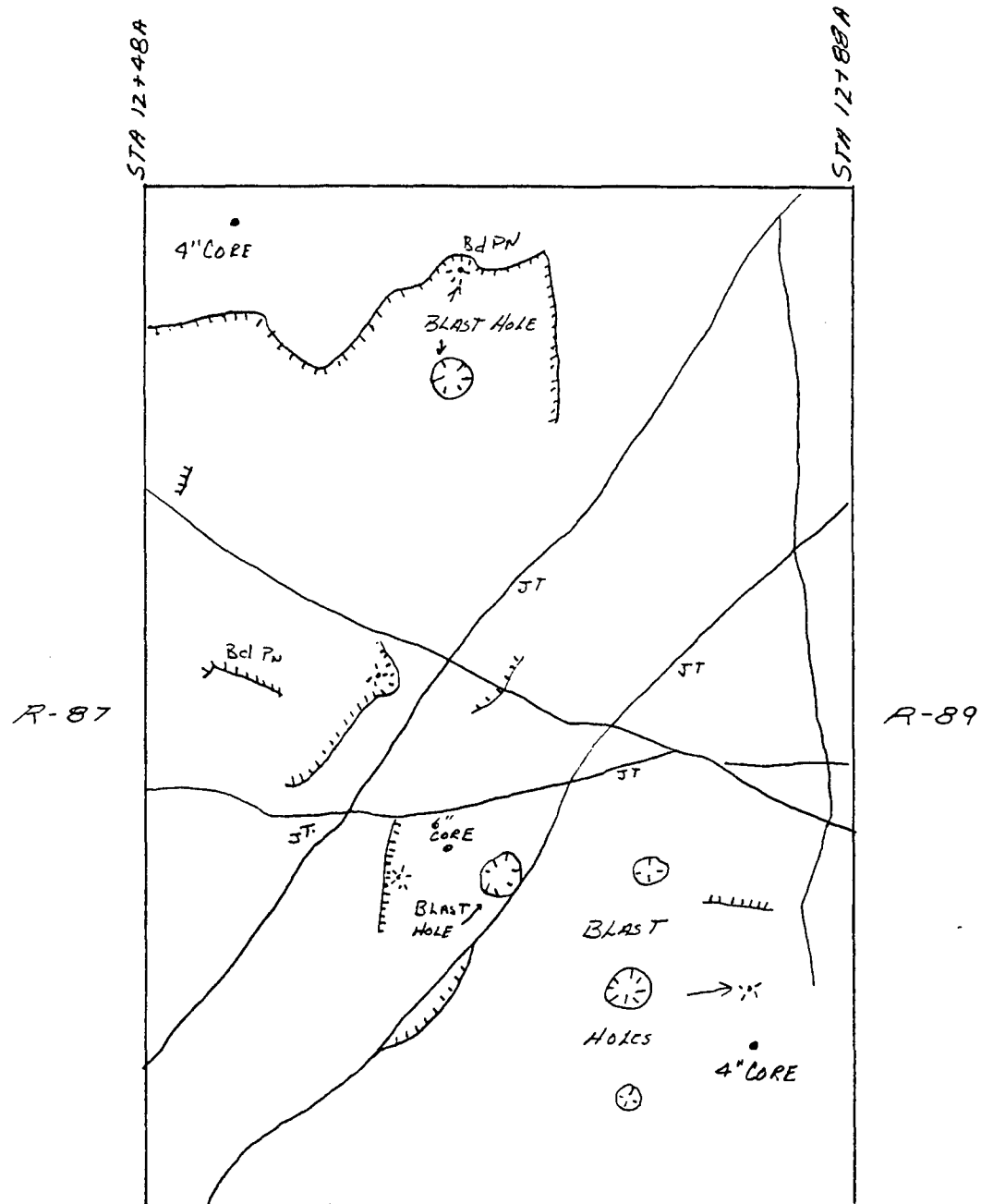


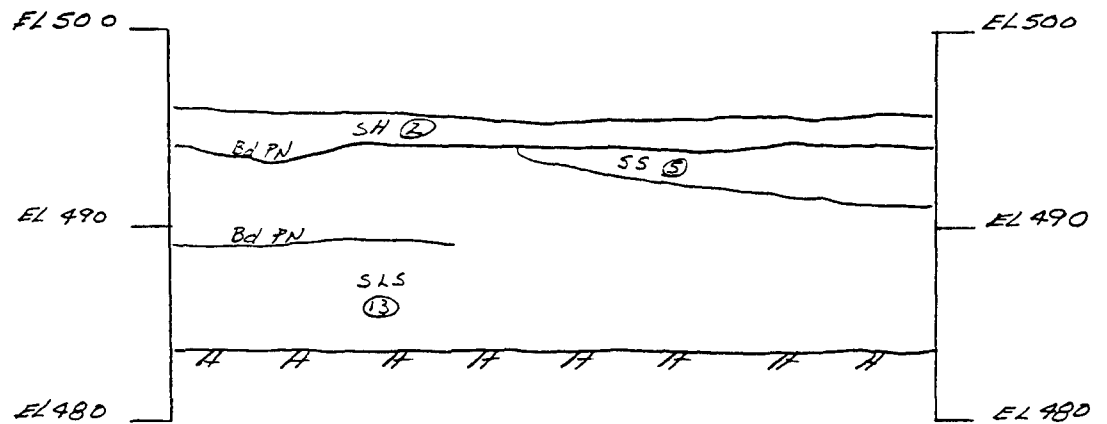




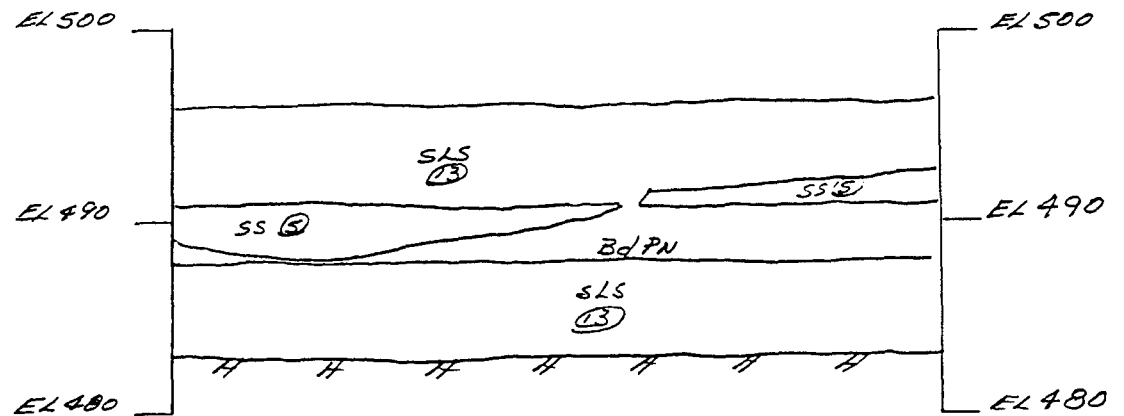




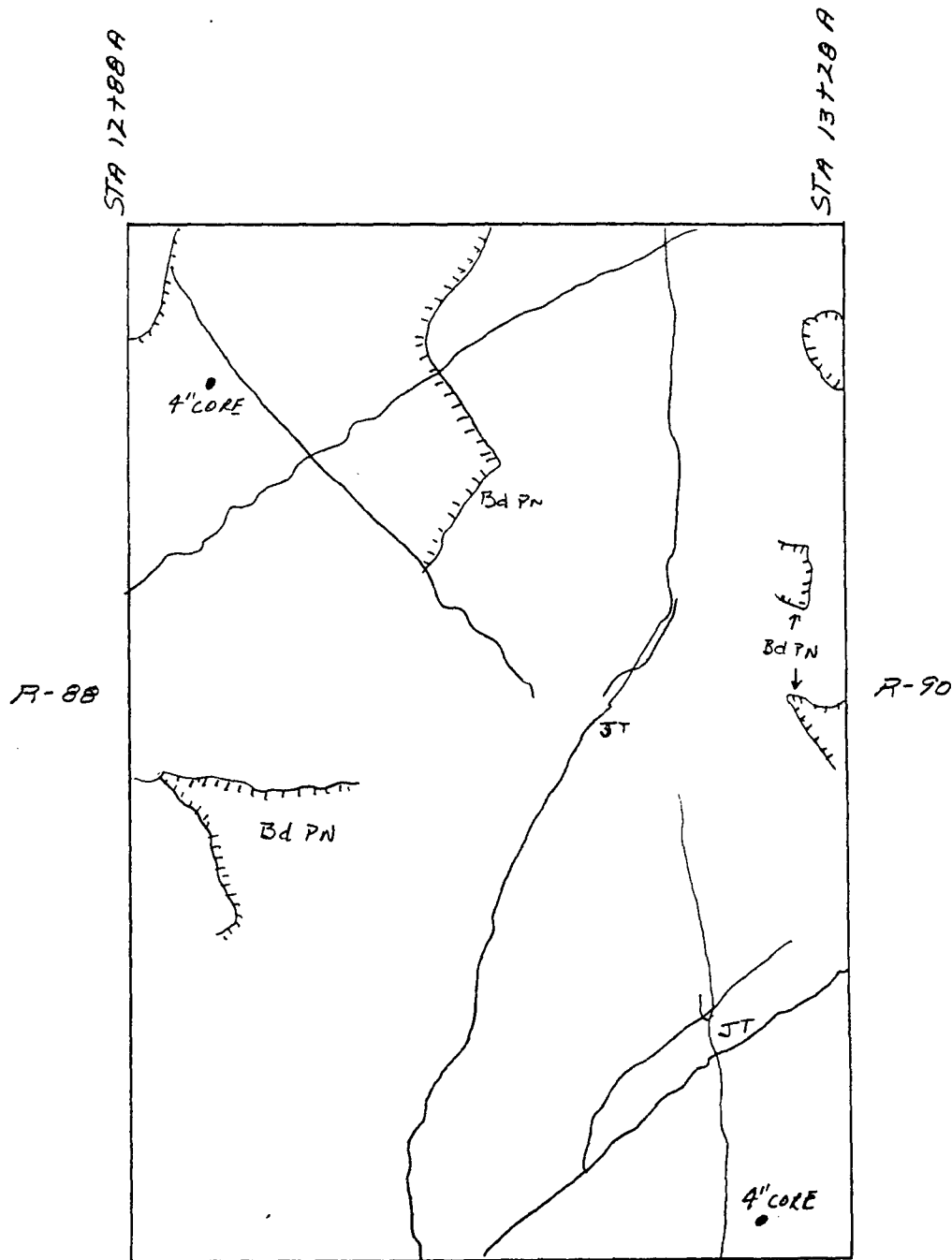




WEST SIDE WALL

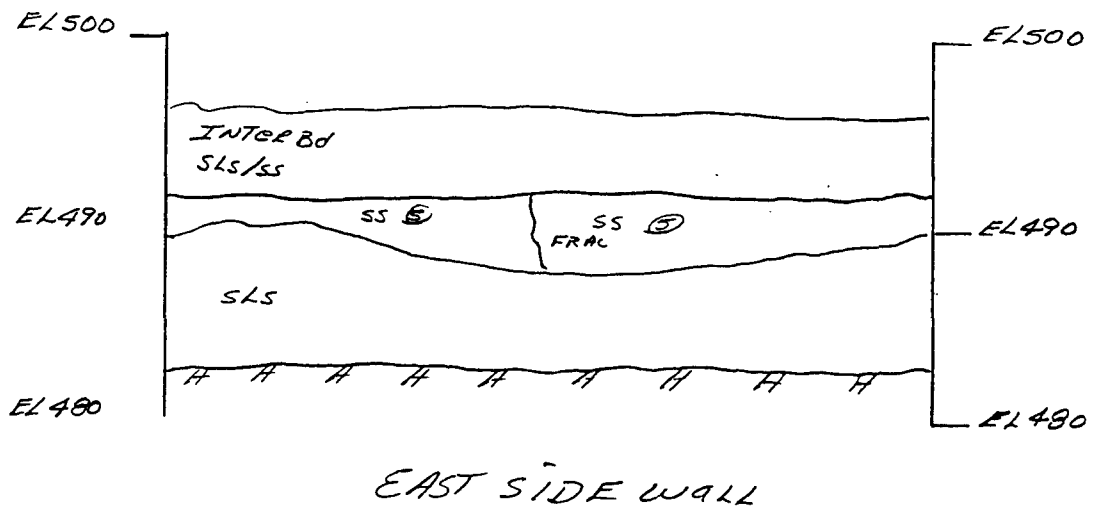
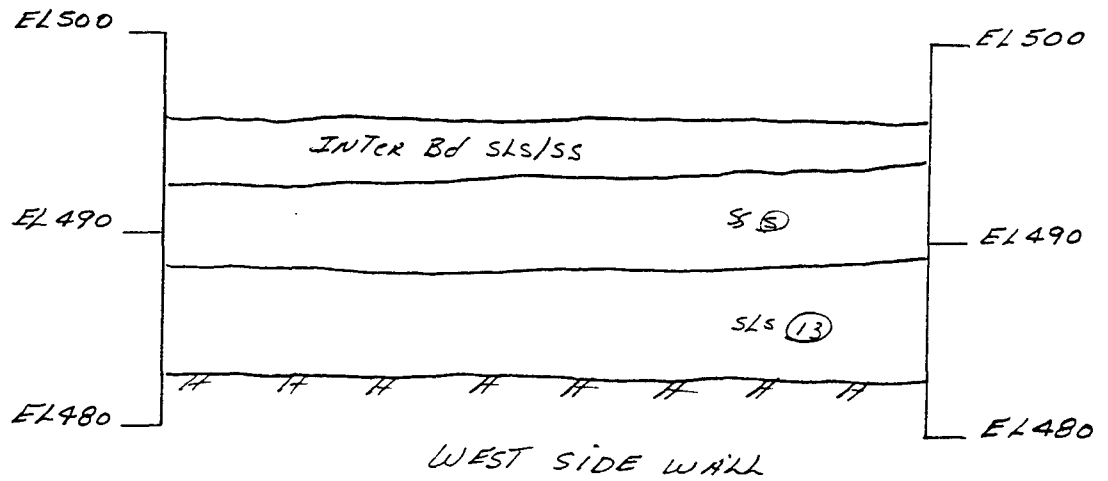


EAST SIDE WALL



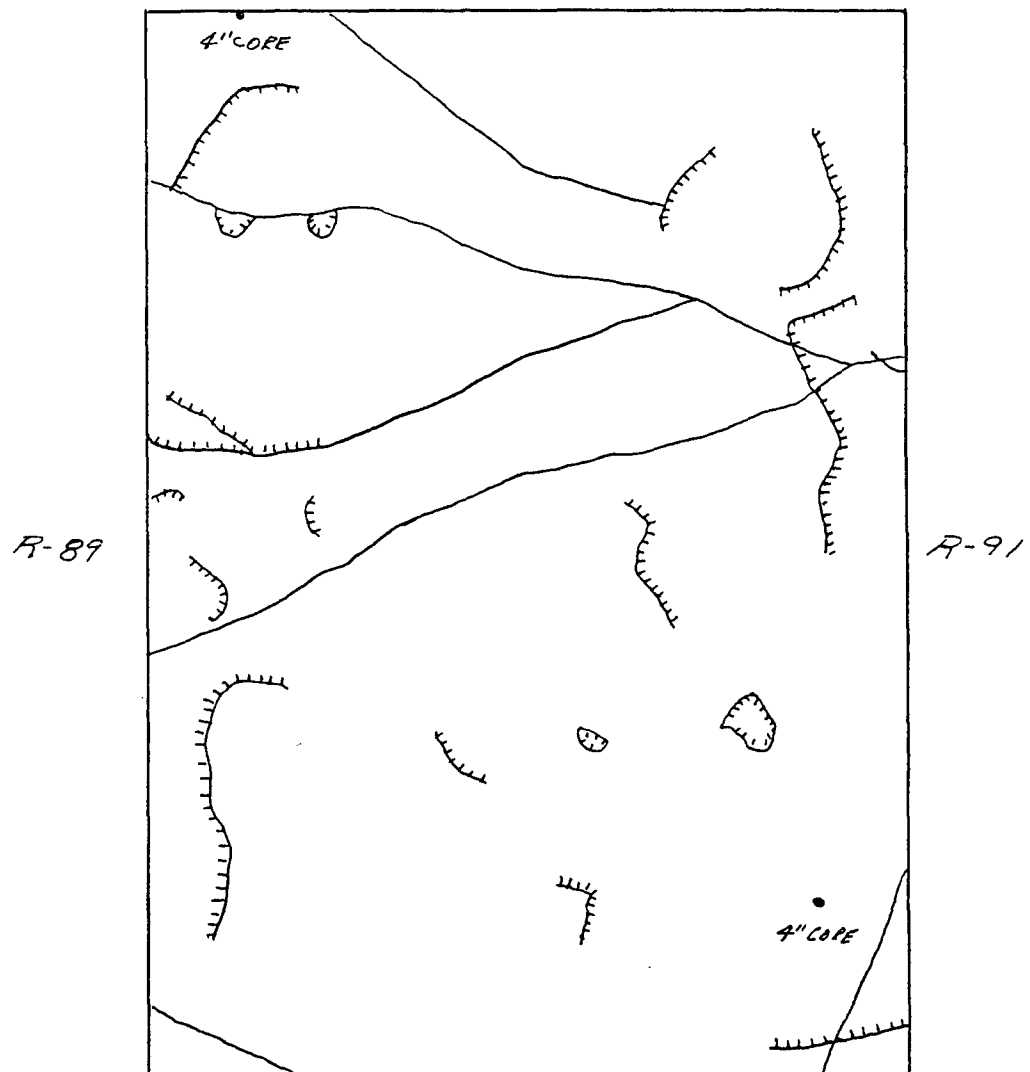
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 89



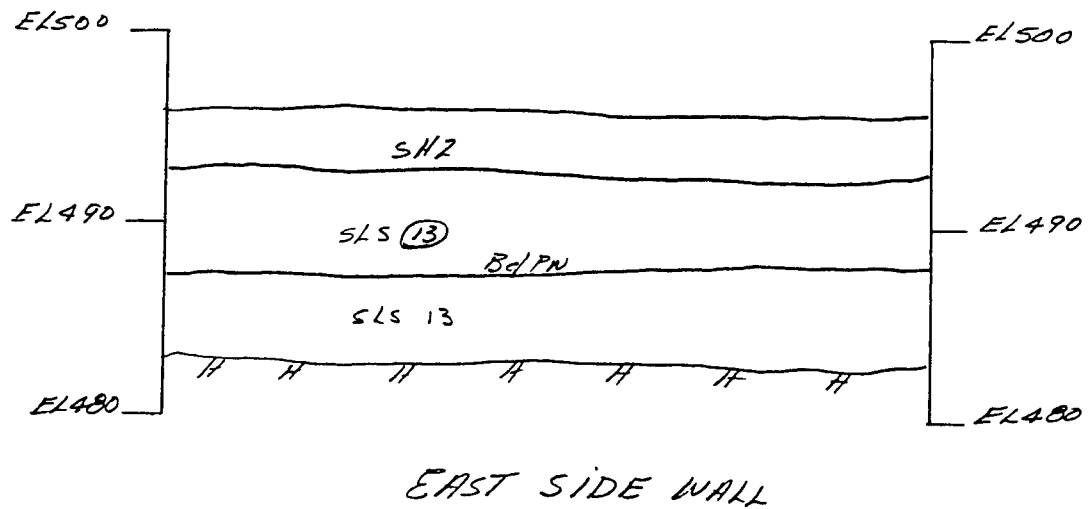
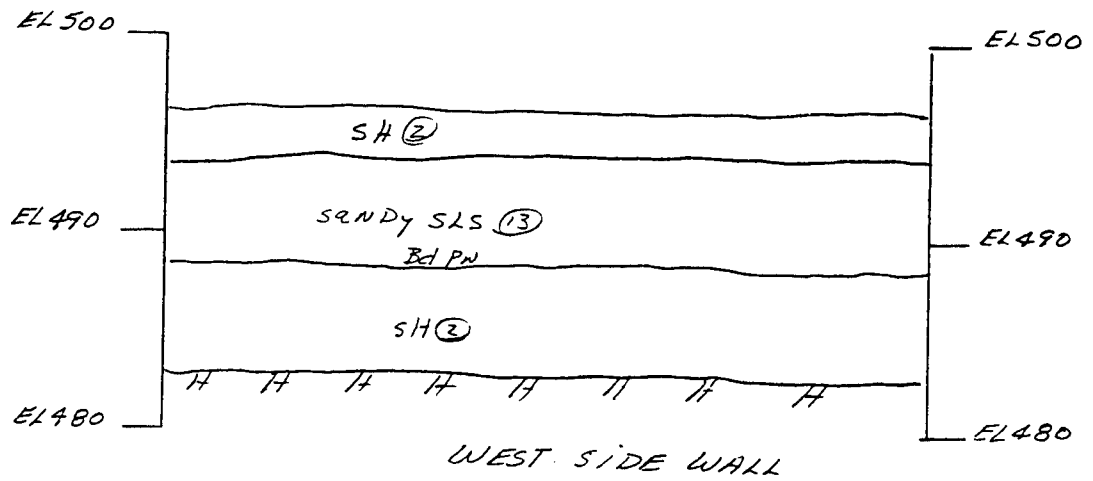
STA 13+88.1

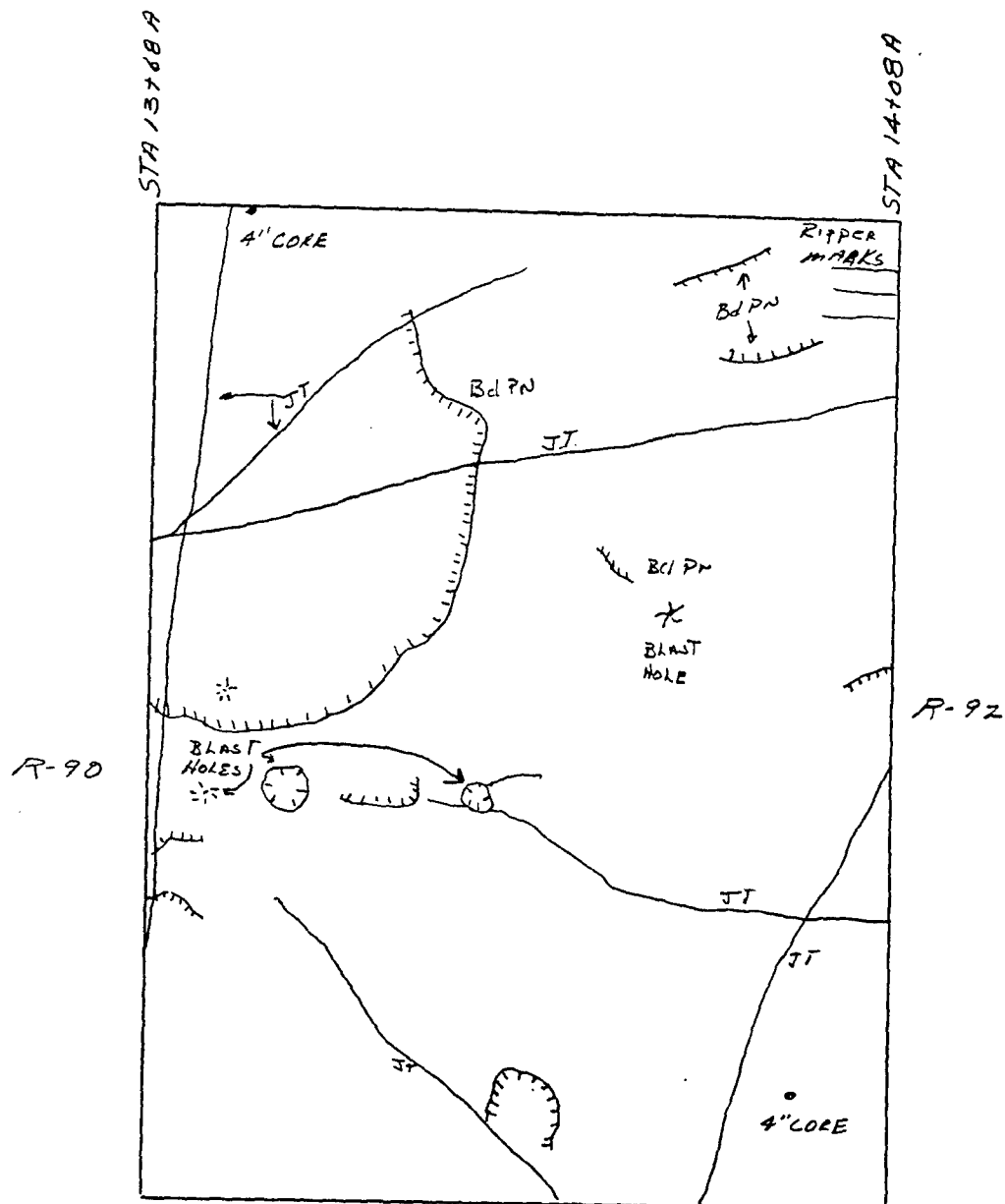
STA 13+88.1



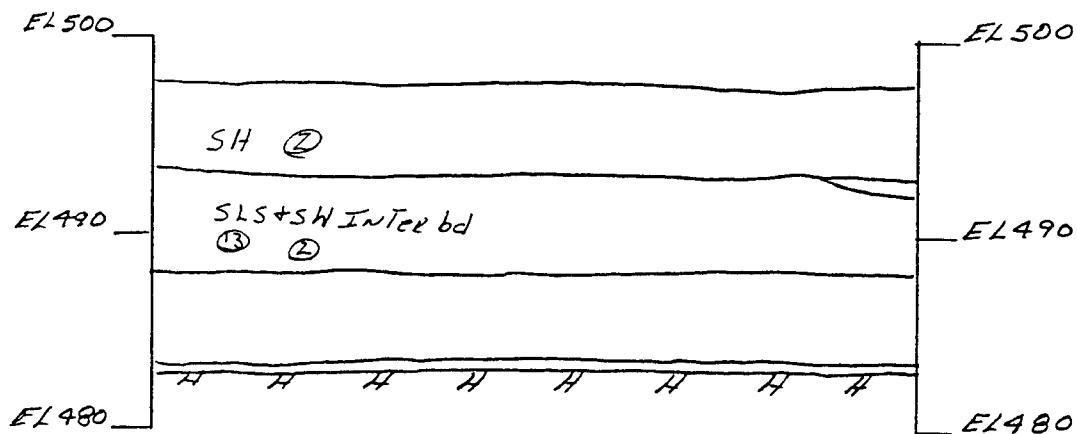
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 90

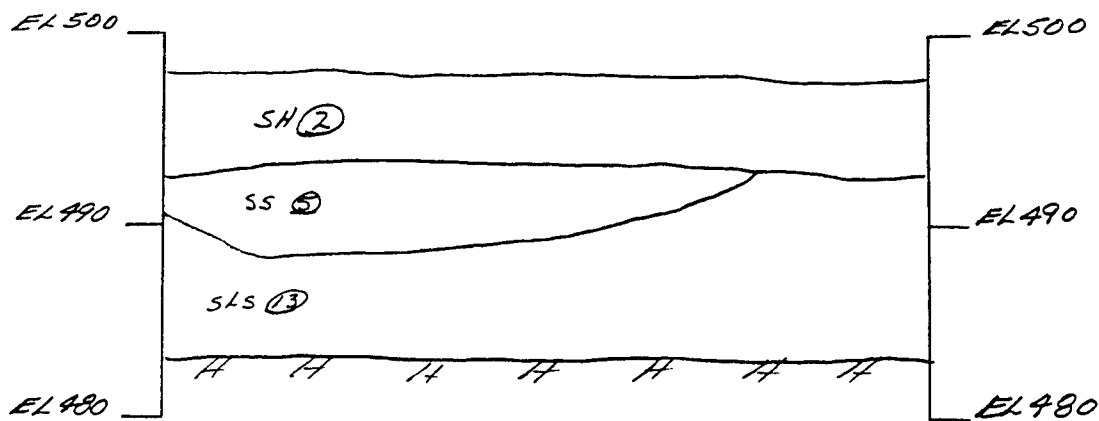




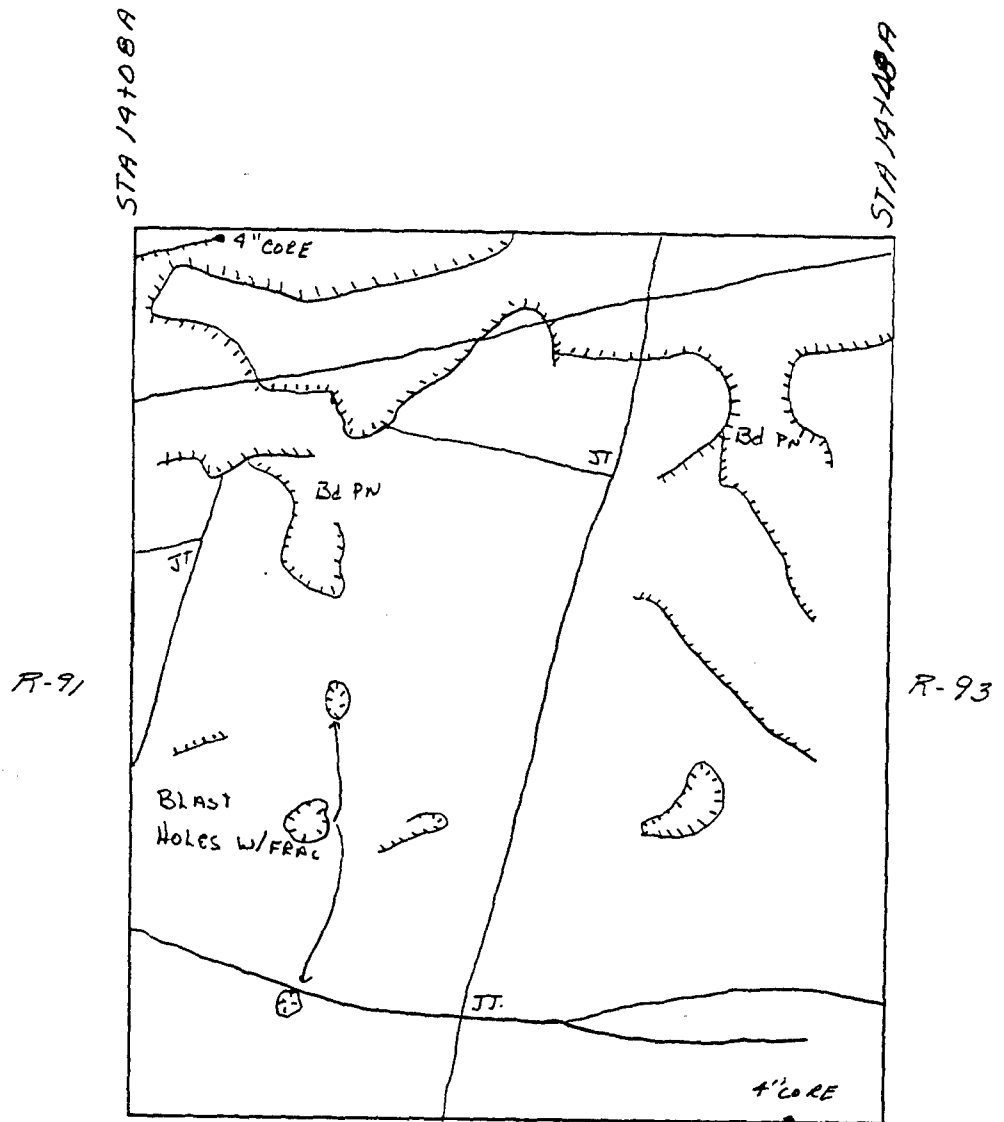


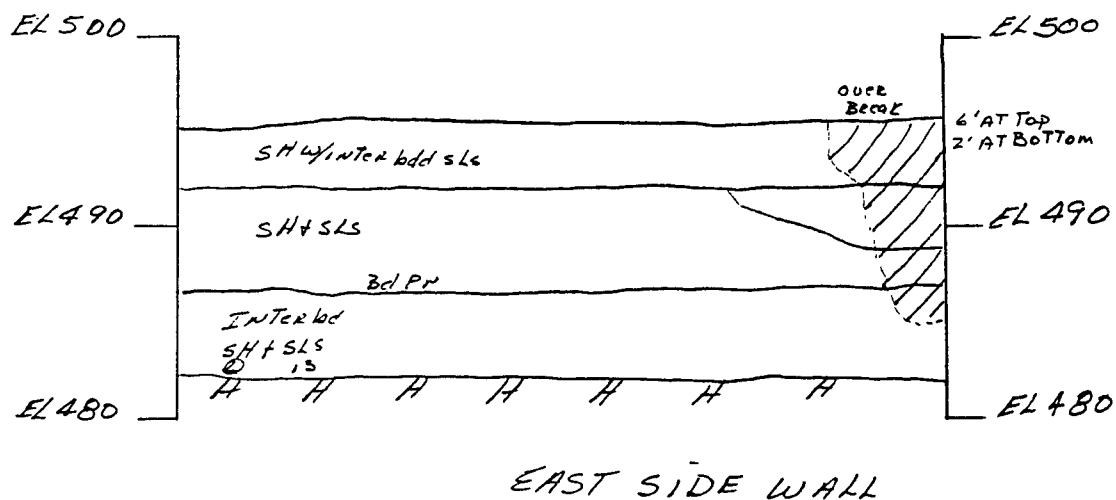
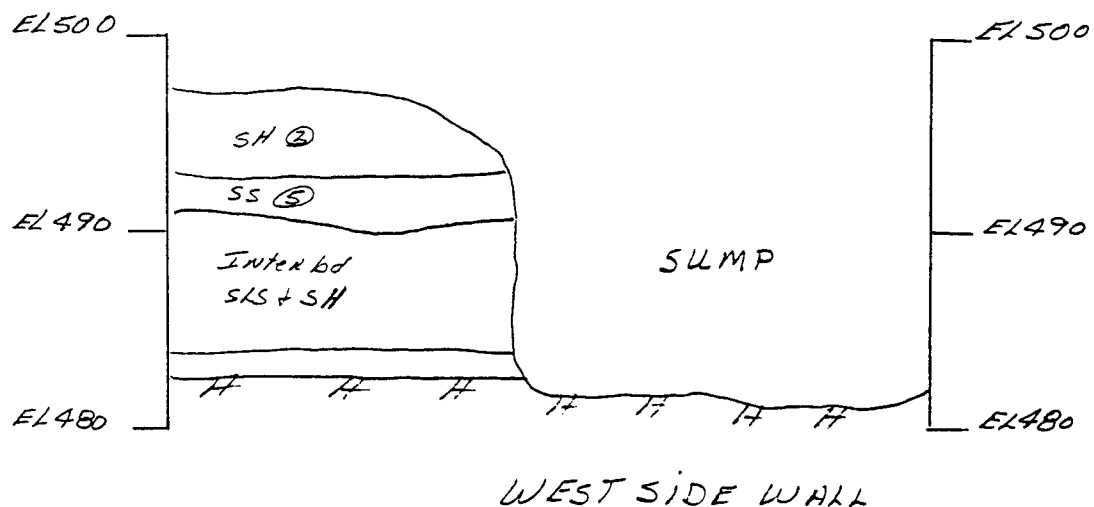


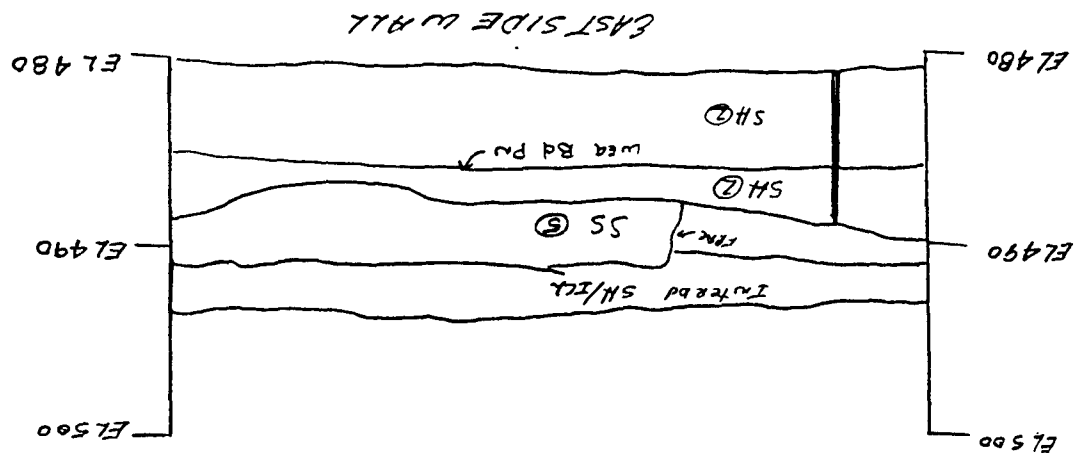
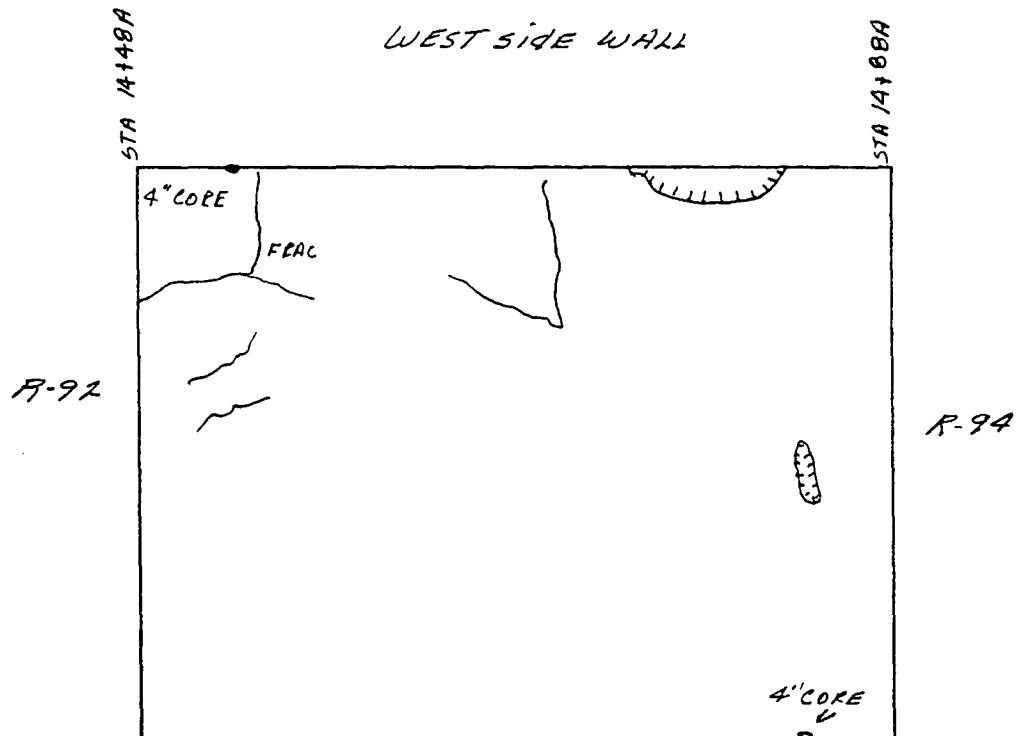
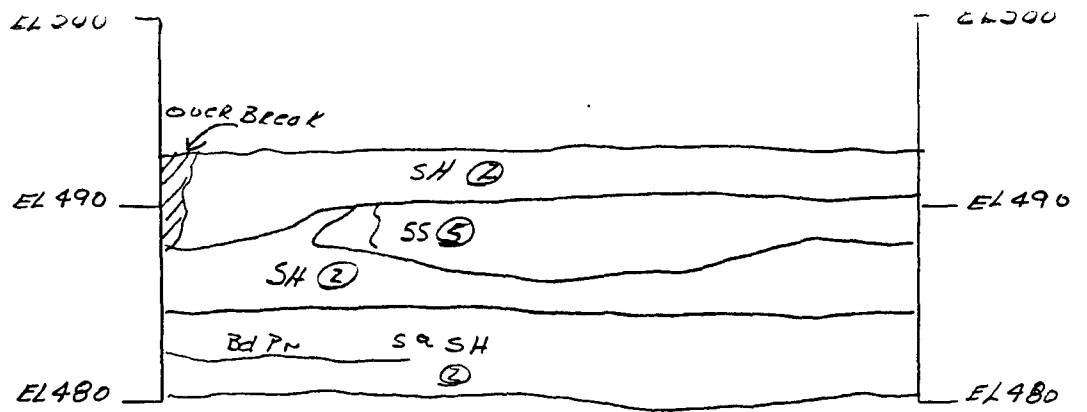
WEST SIDE WALL



EAST SIDE WALL

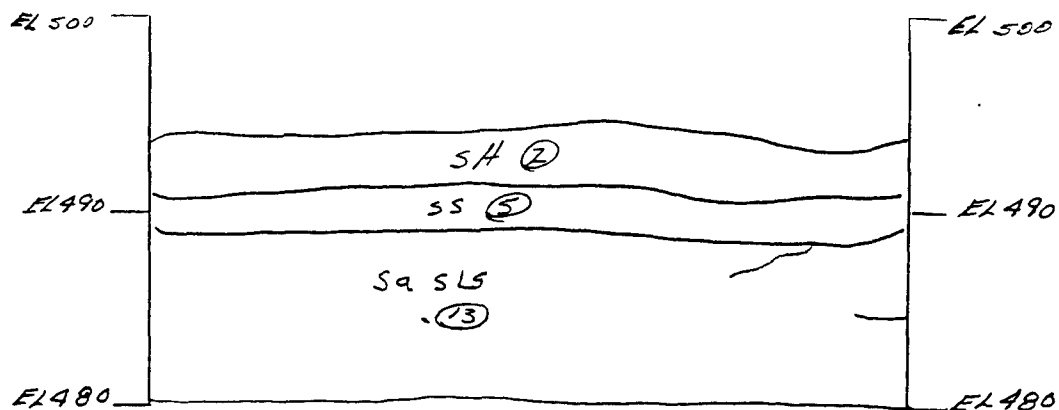






U.S. Army Corps of Engineers

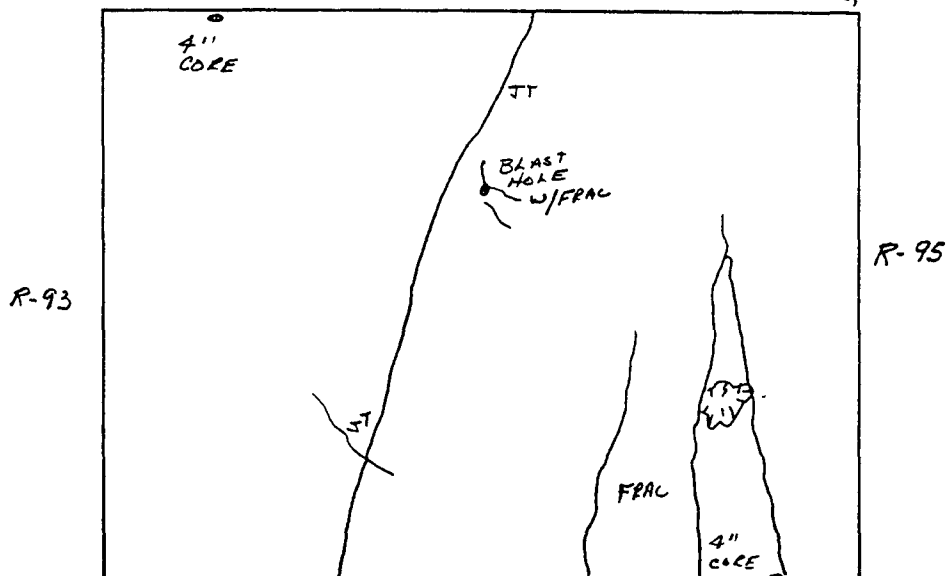
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 93



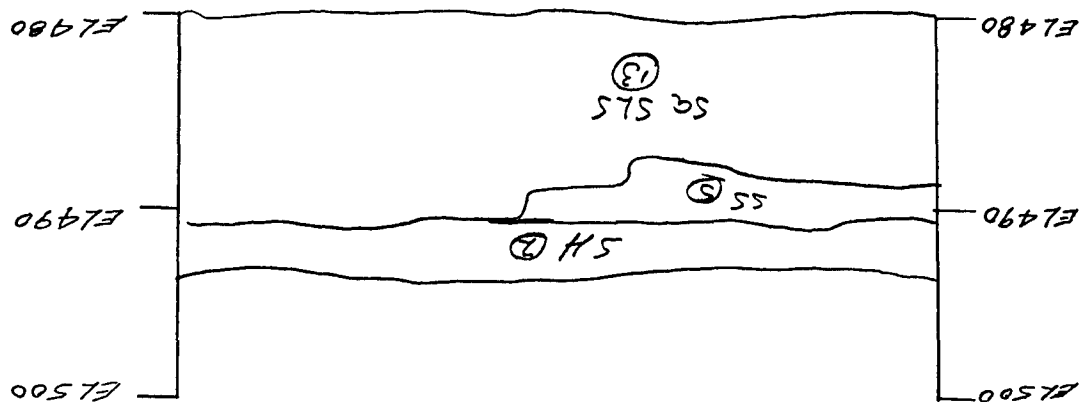
STA 14+88A

WEST SIDE WALL

STA 15+28A

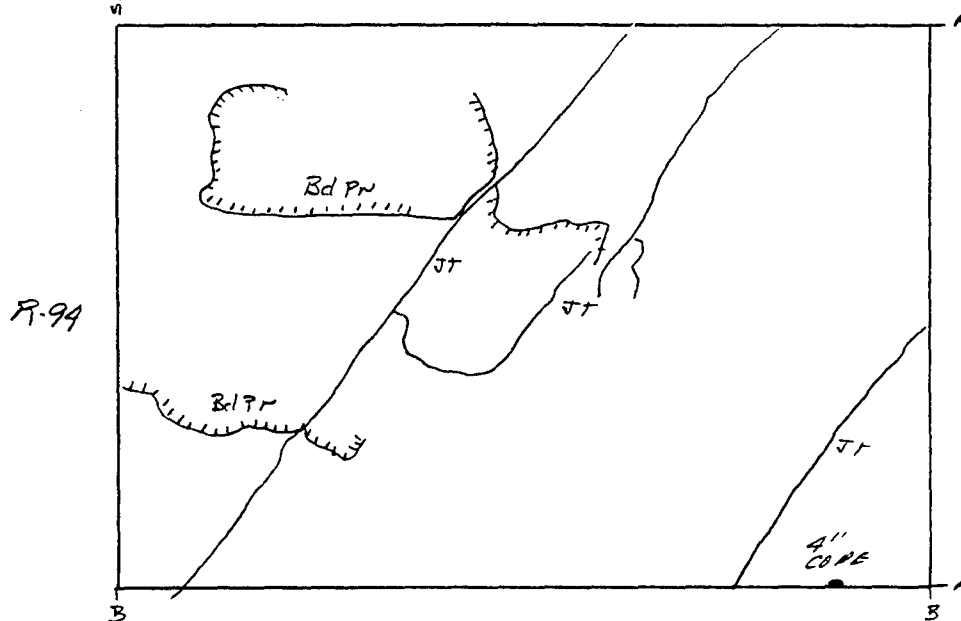
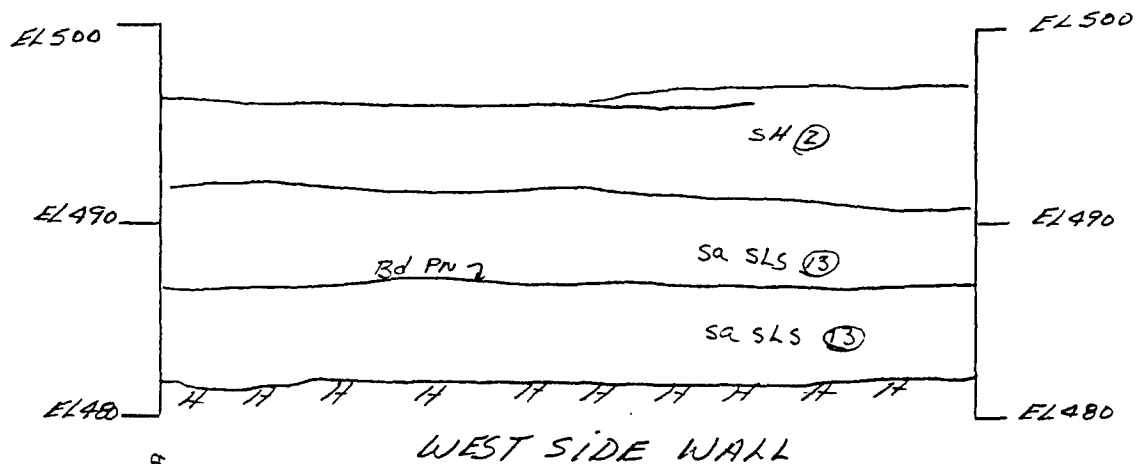


EAST SIDE WALL



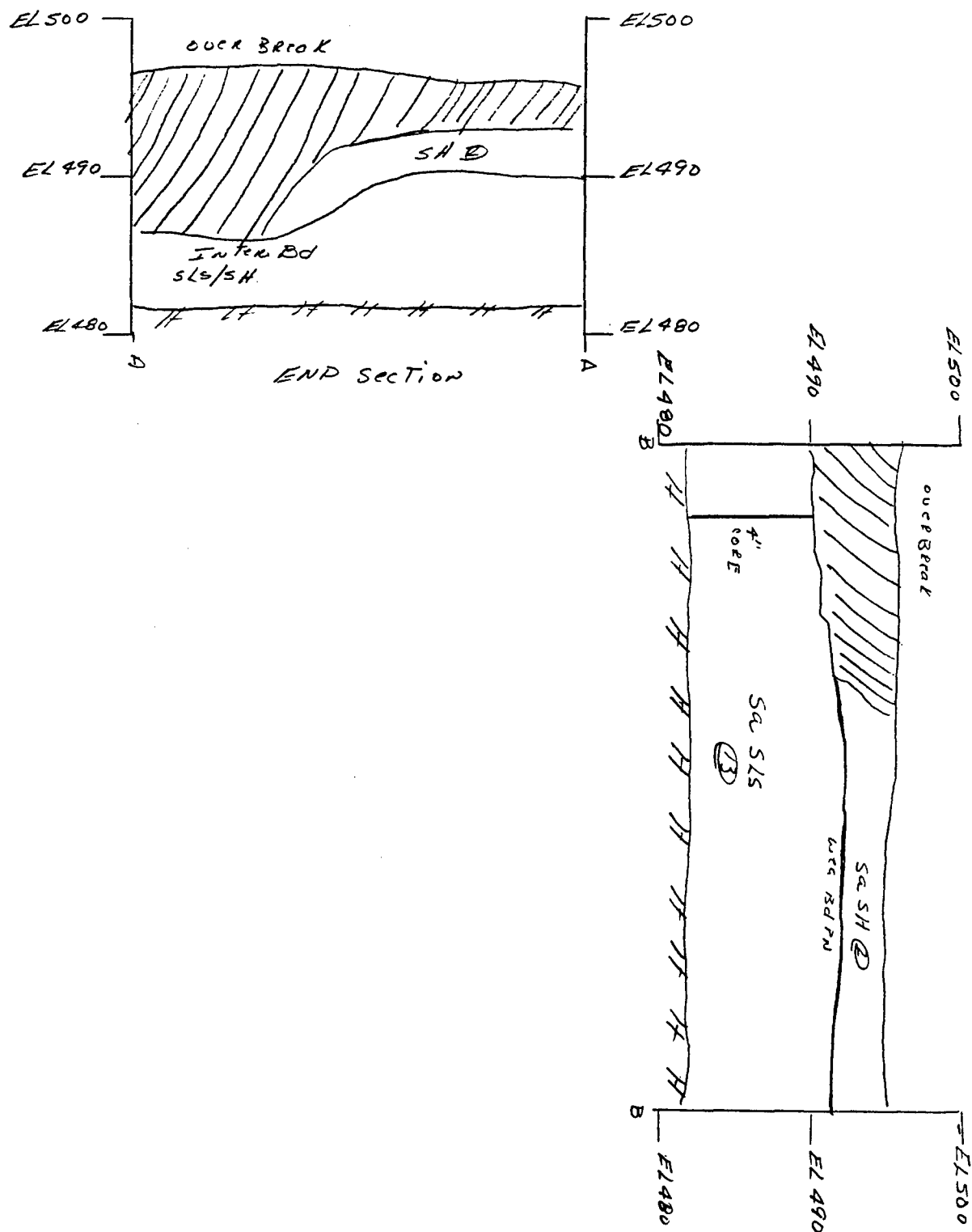
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 94



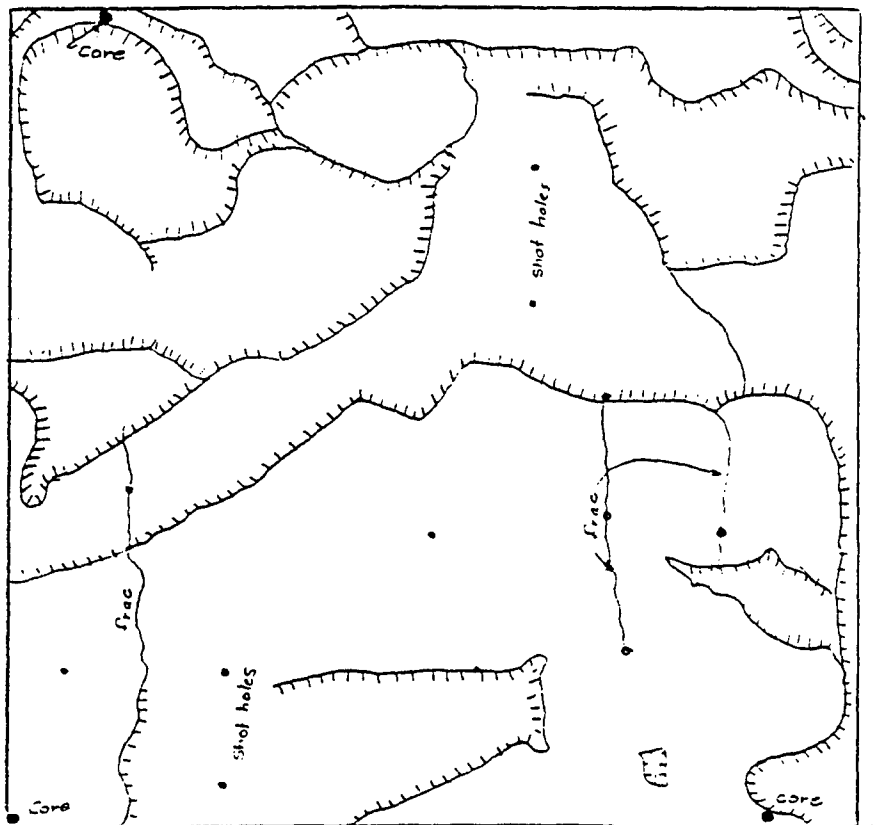
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 95



U.S. Army Corps of Engineers

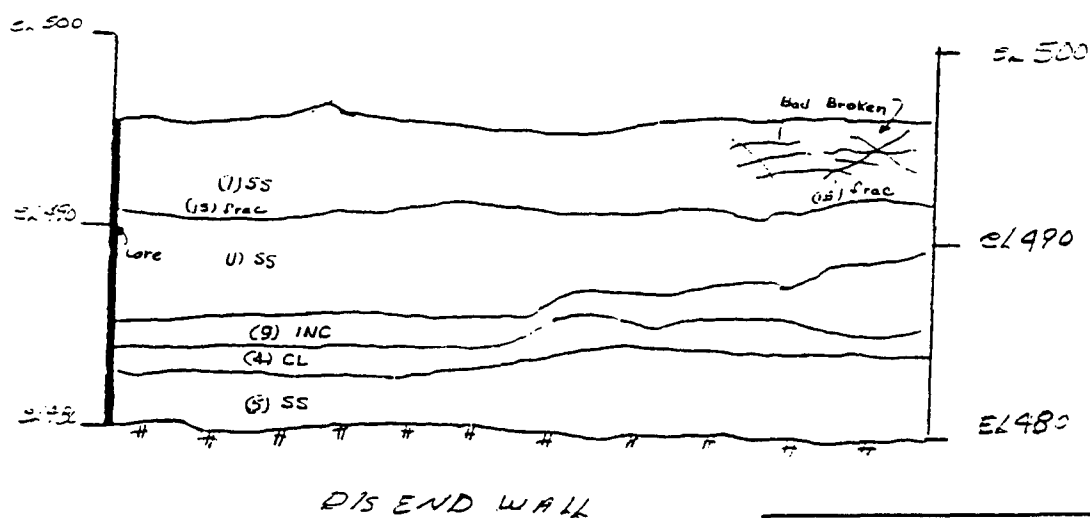
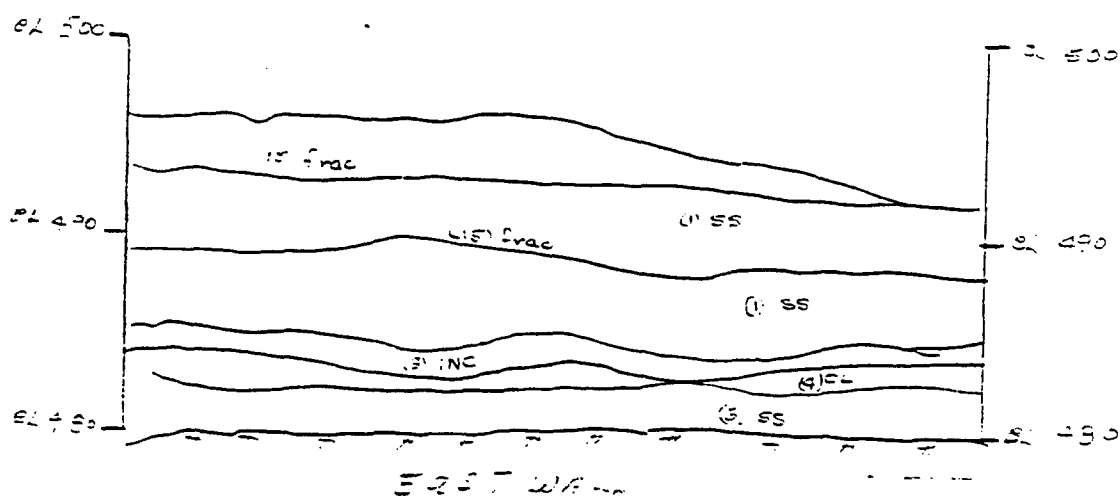
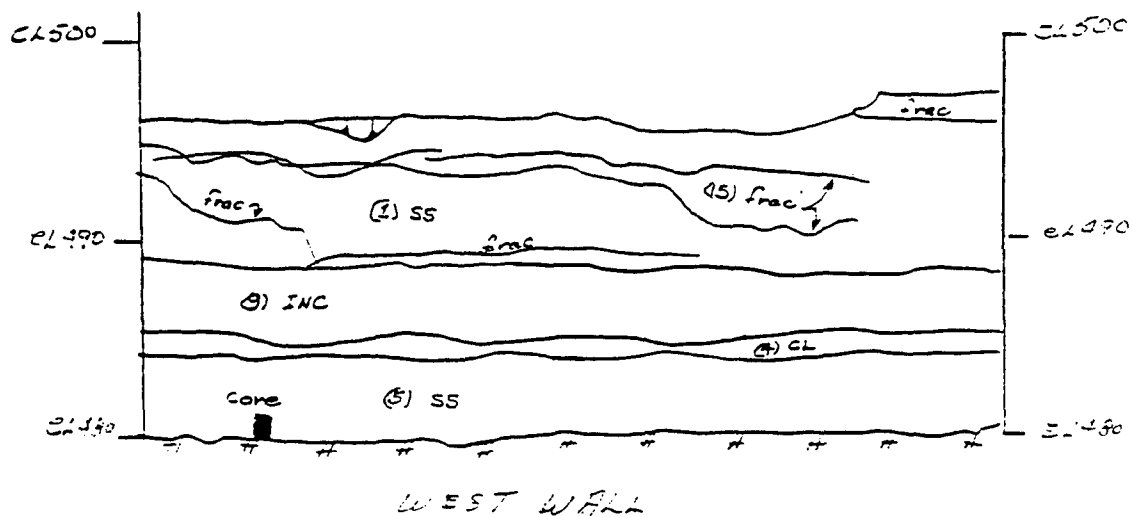
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Wall Monolith 95



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 1



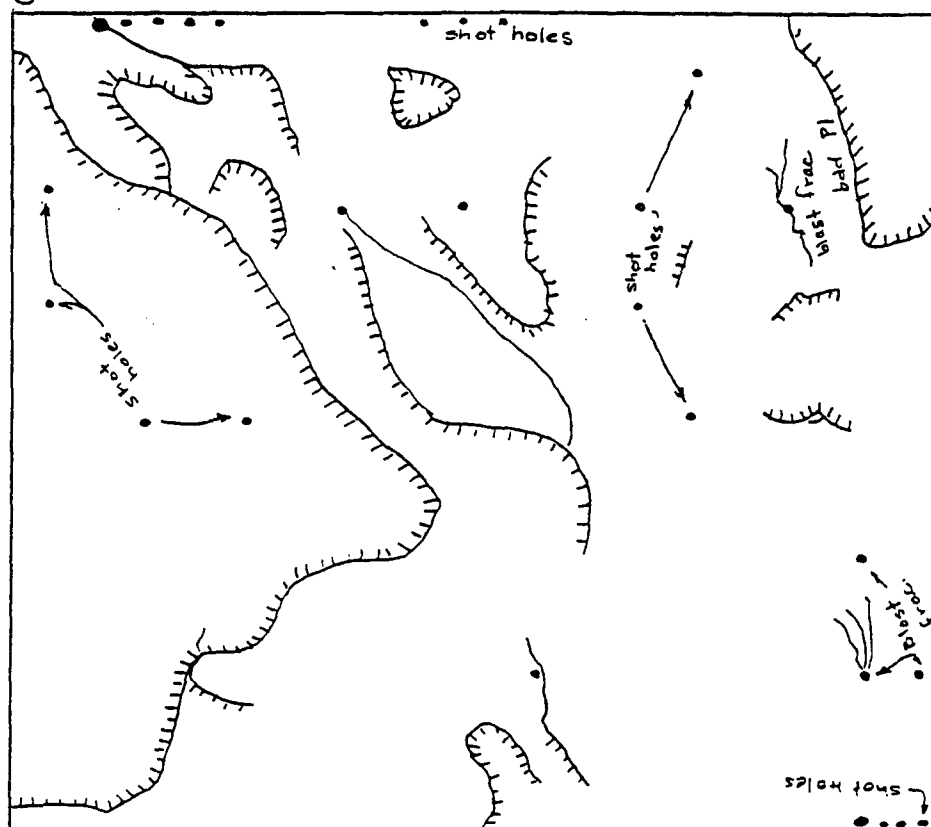


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 1

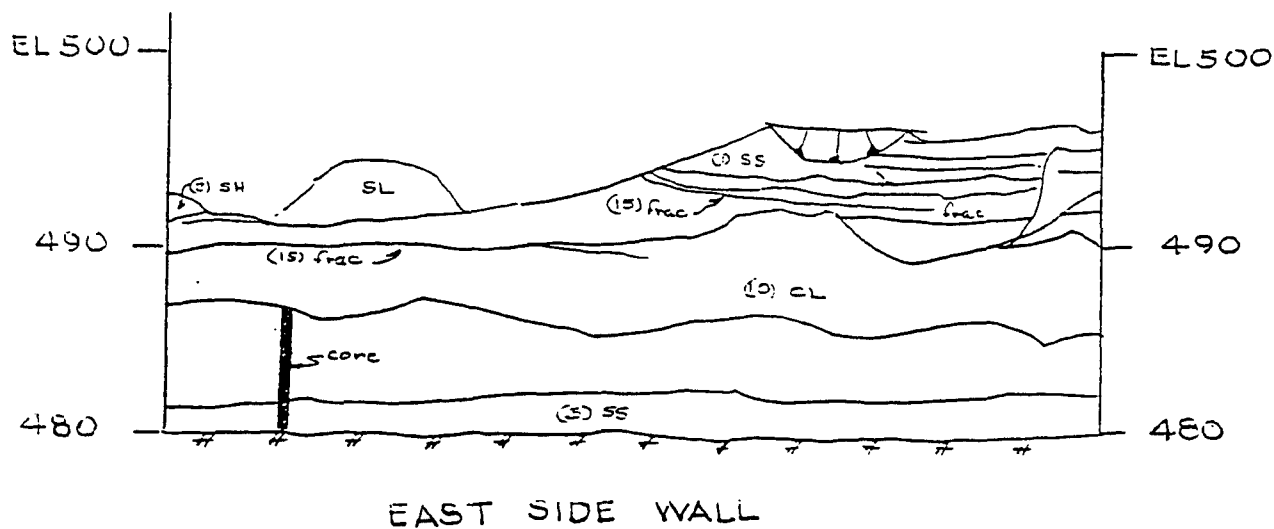
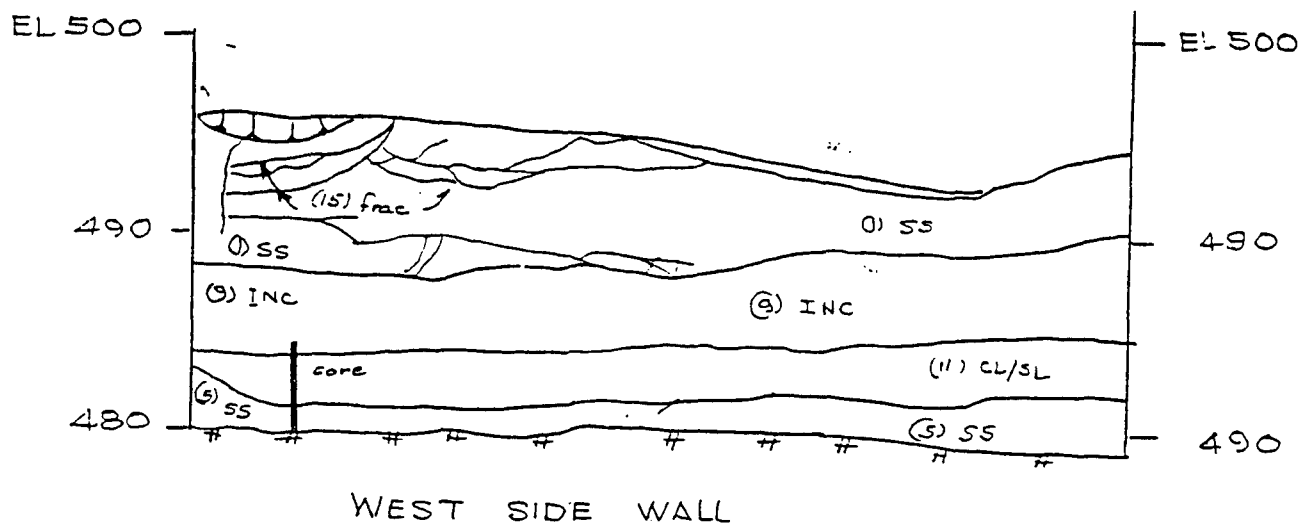
STA-15+27 B

STA-14+79 B



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 2

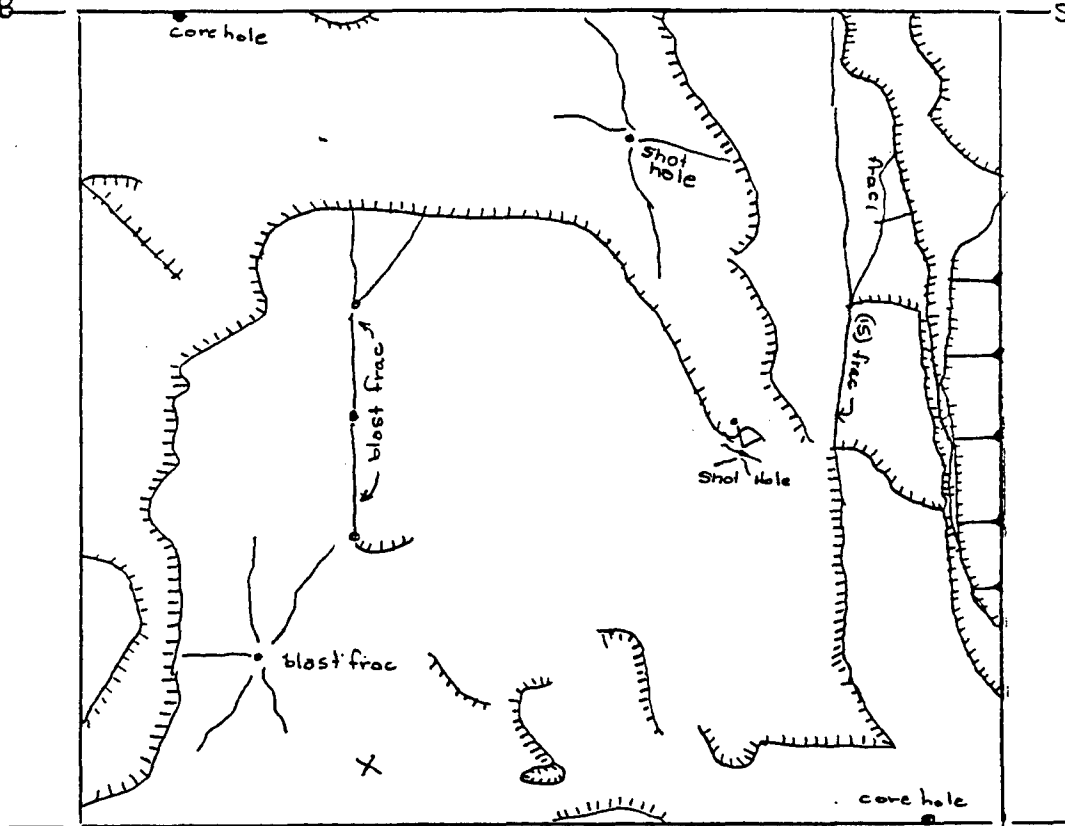


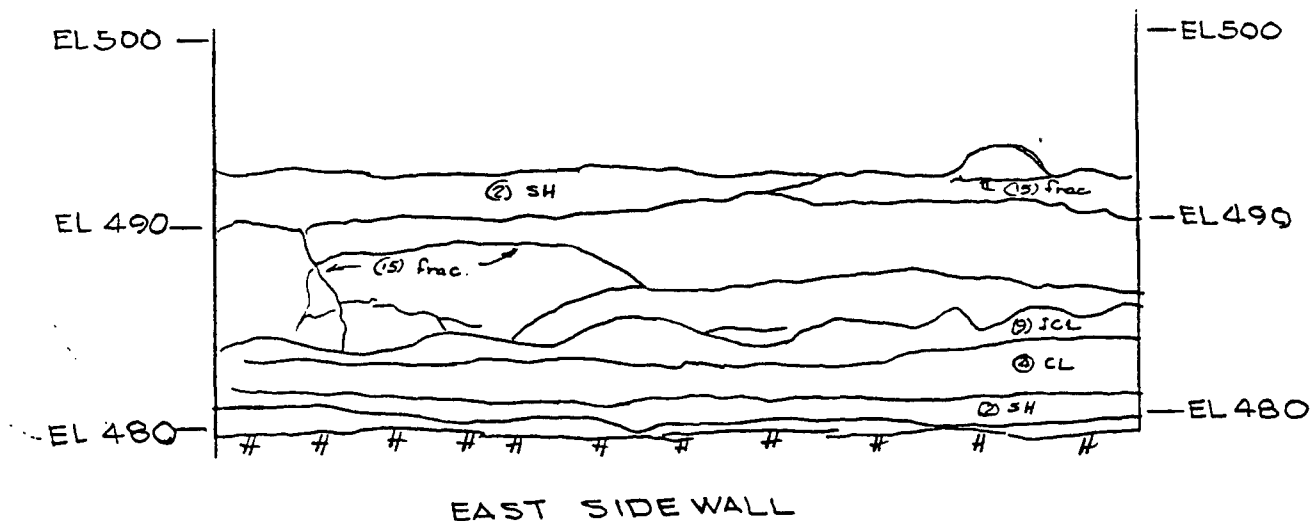
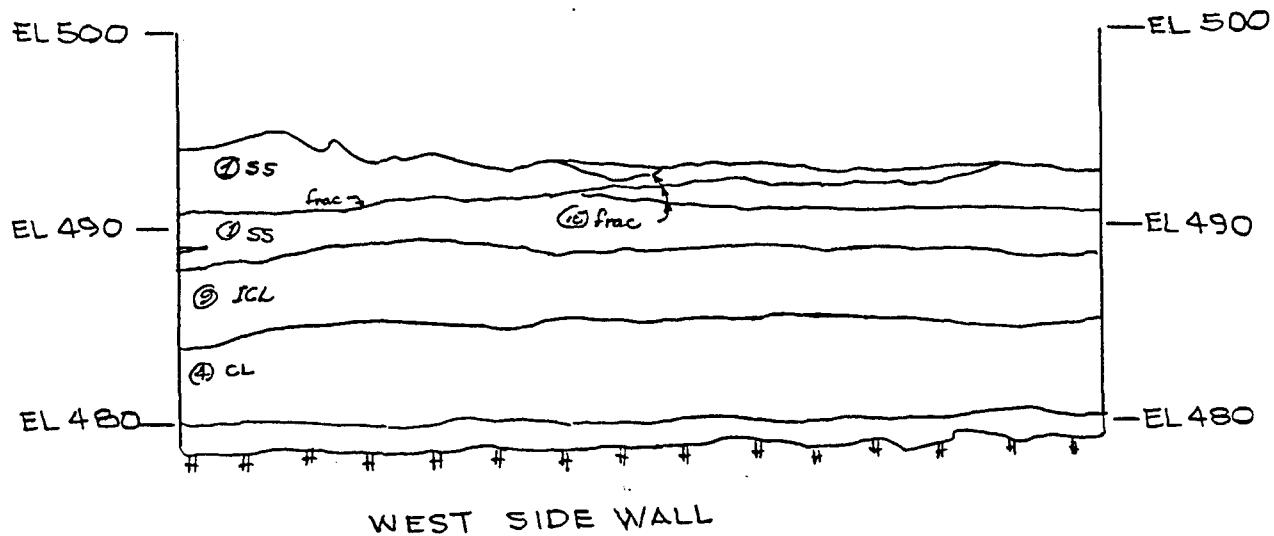
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 2

STA 14+798

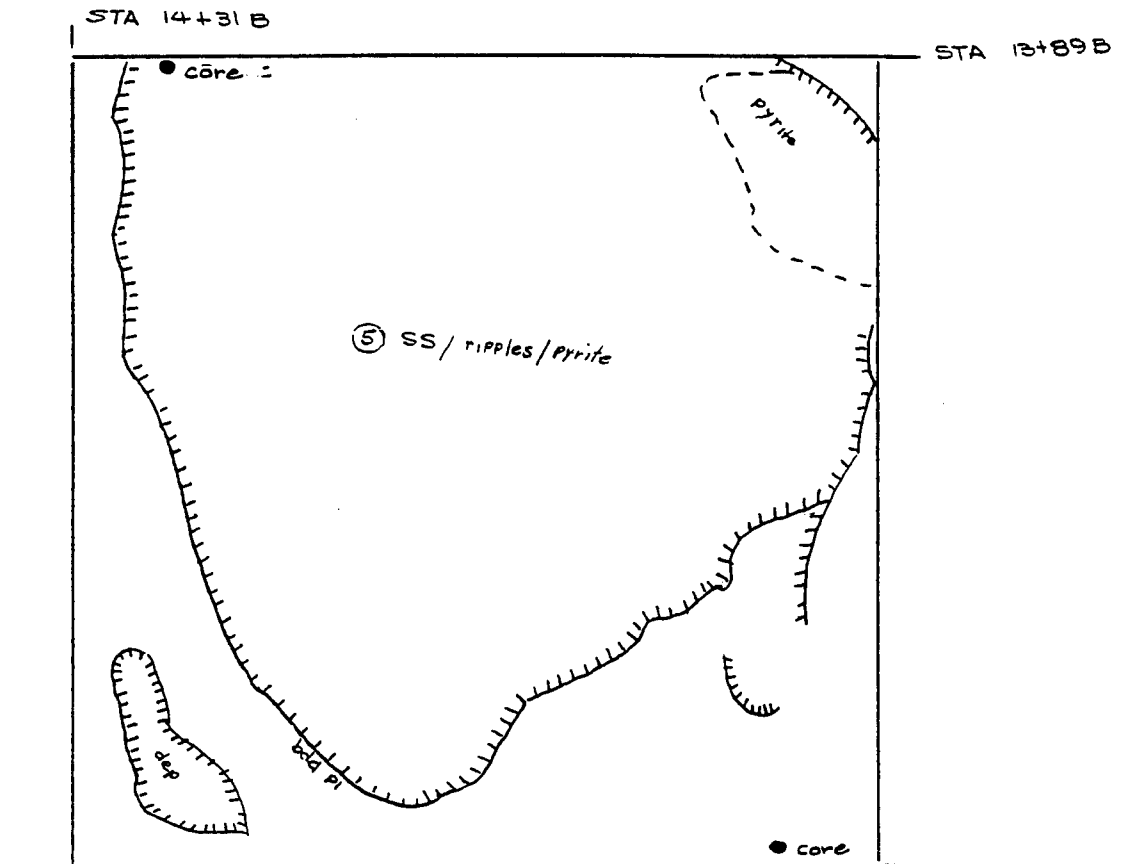
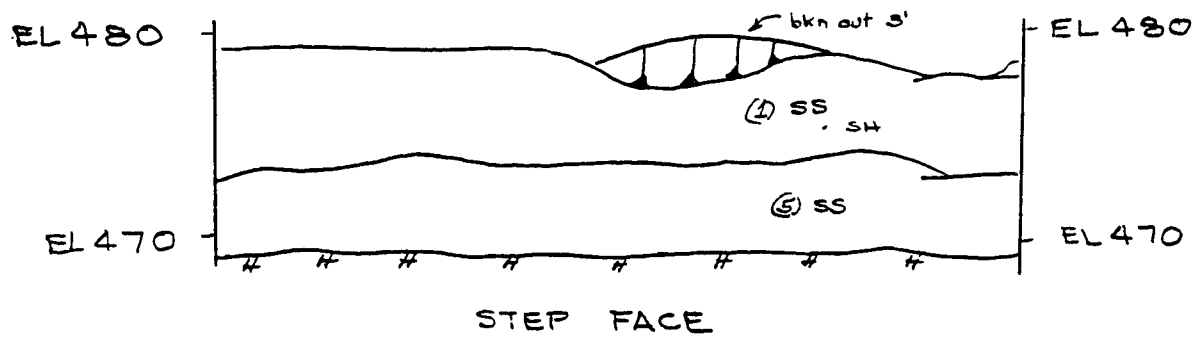
STA 14+31E





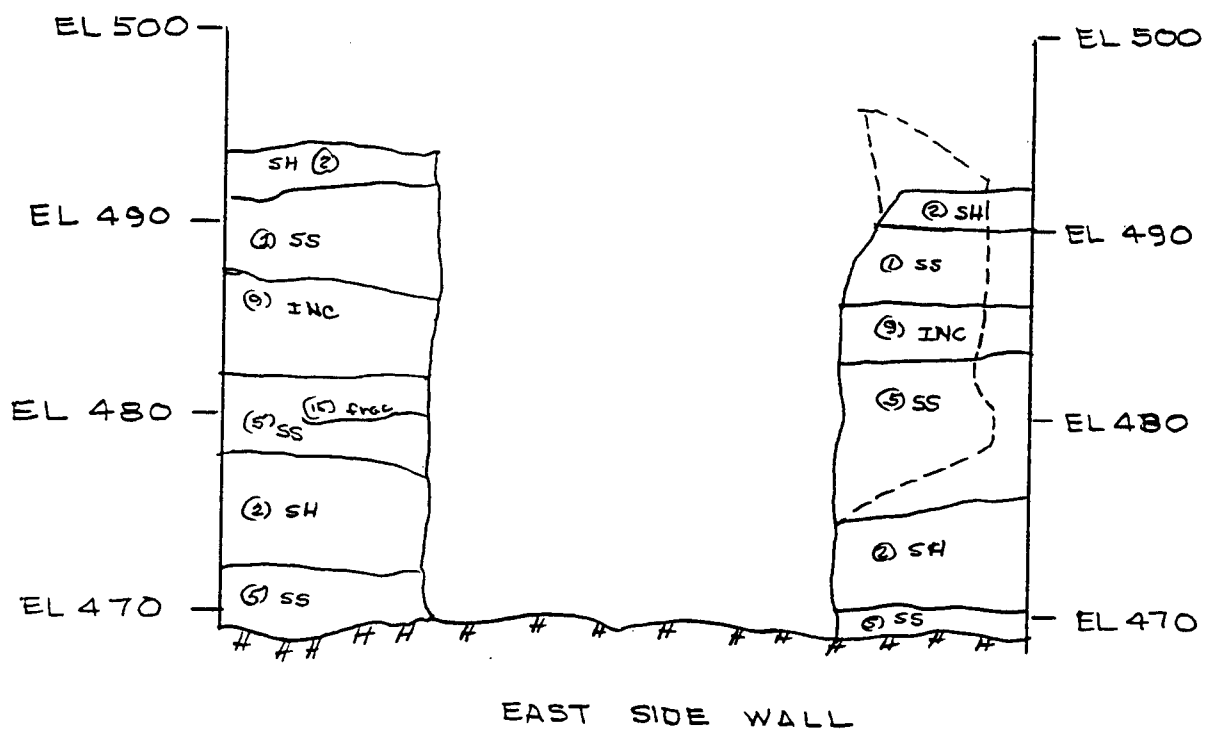
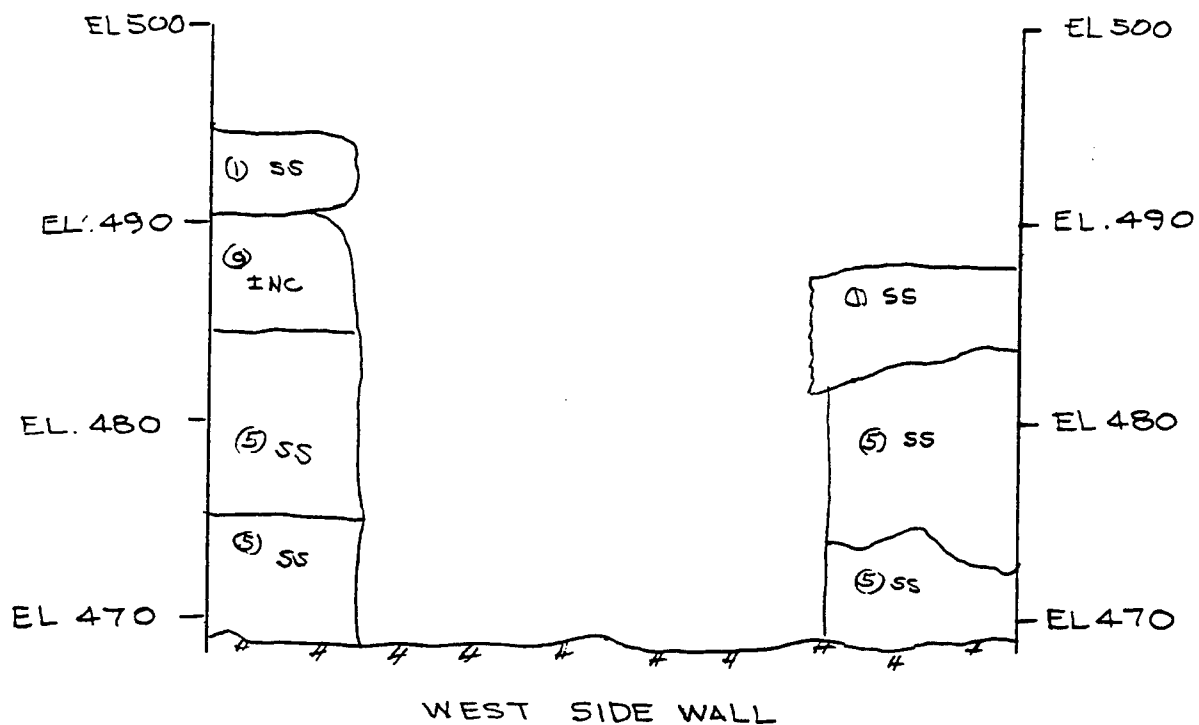
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 3



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 4



U.S. Army Corps of Engineers

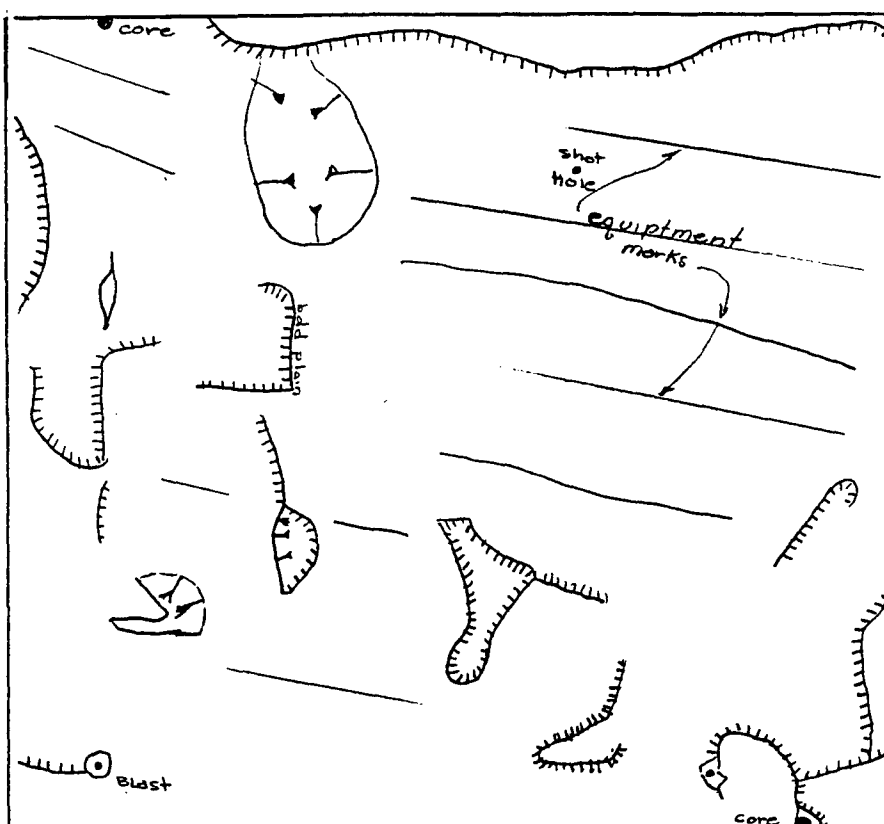
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 4

STA. 13+89 B

STA 13+43B

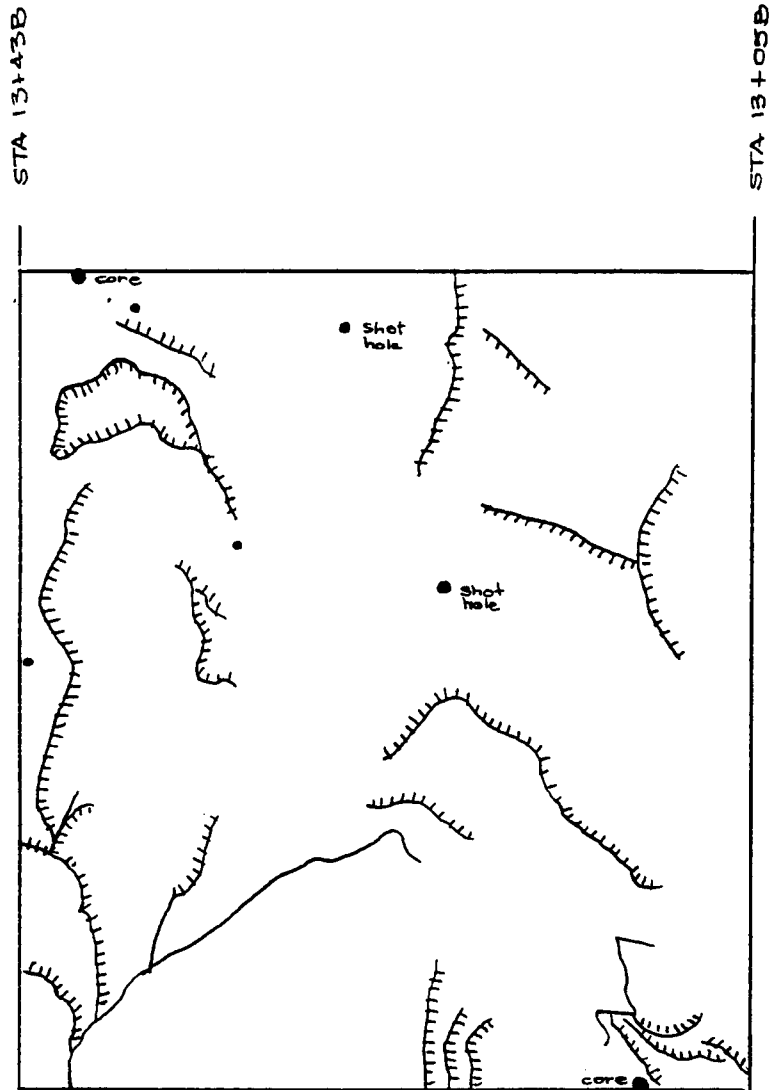
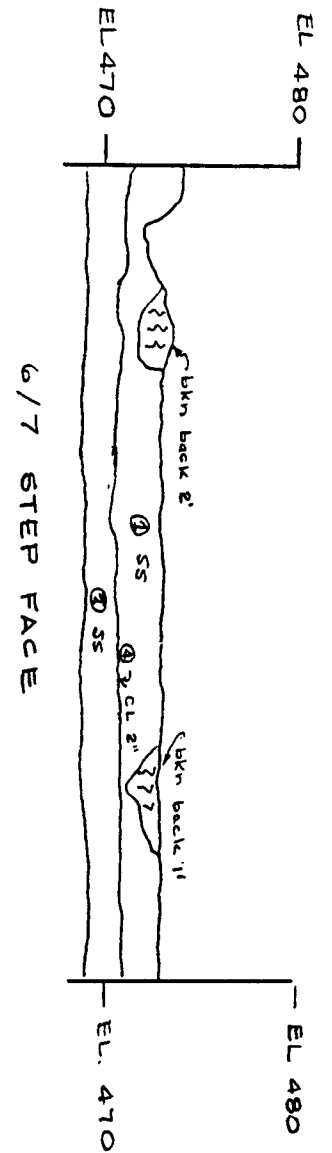
M-4

M-6





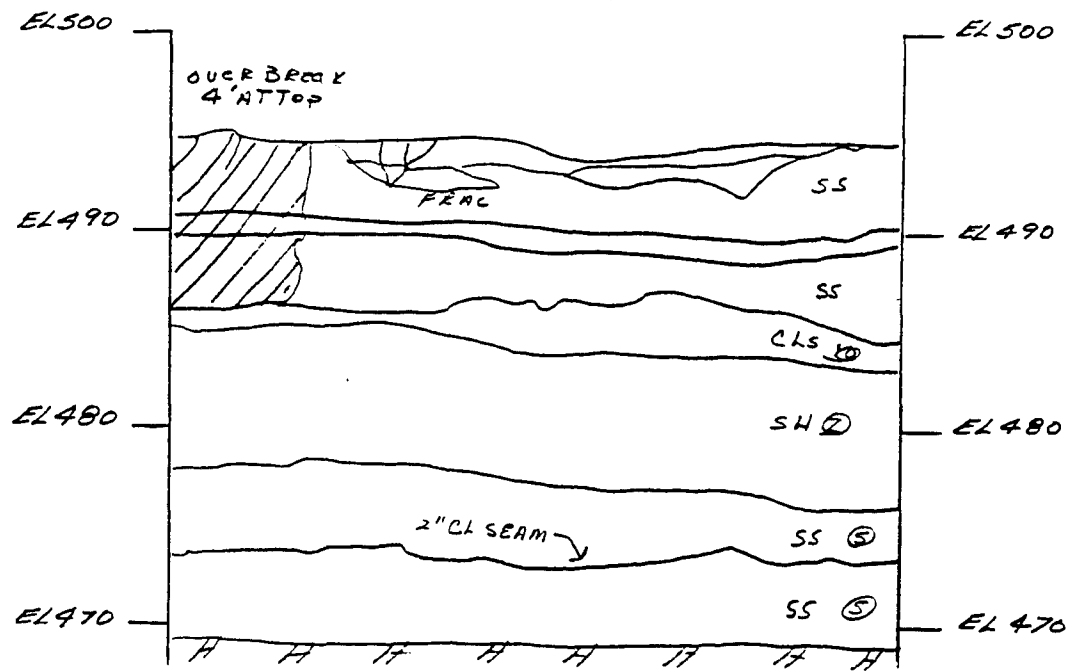




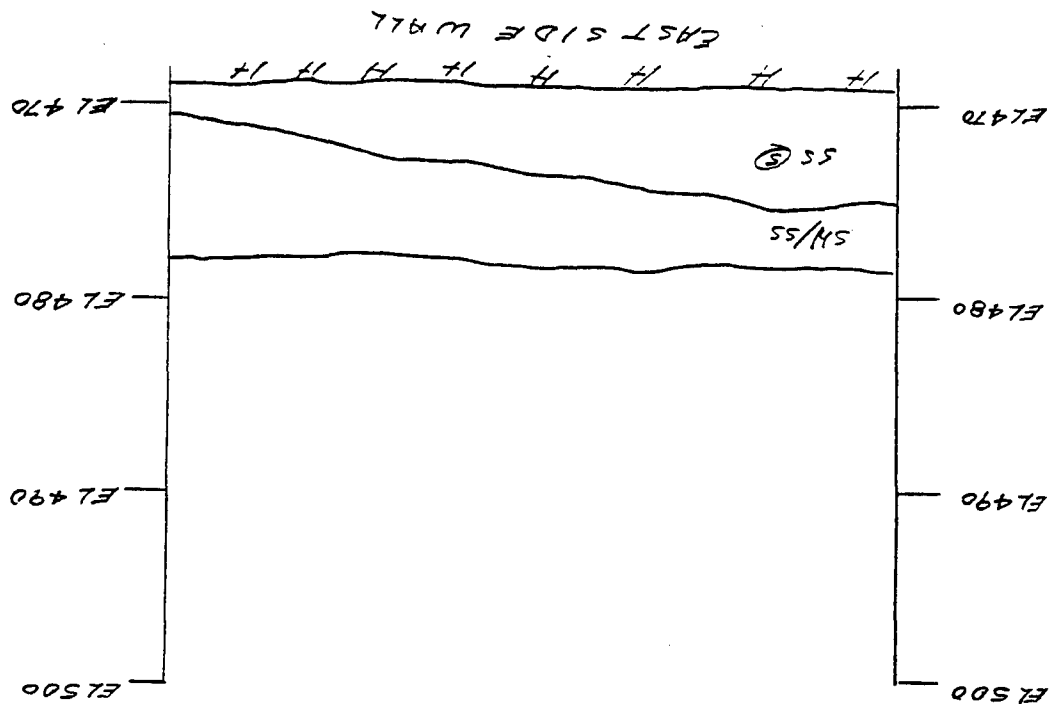
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U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 6

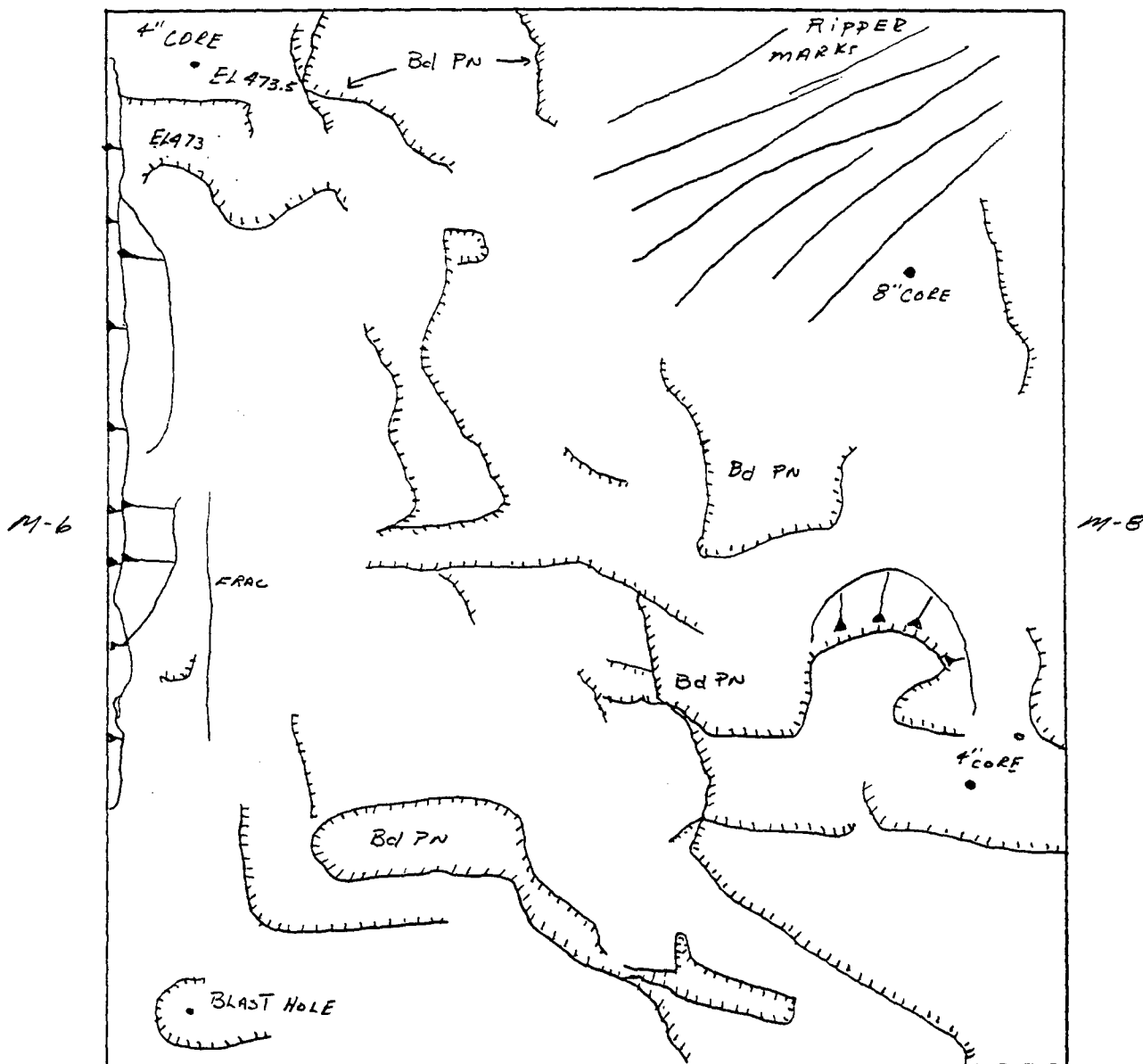


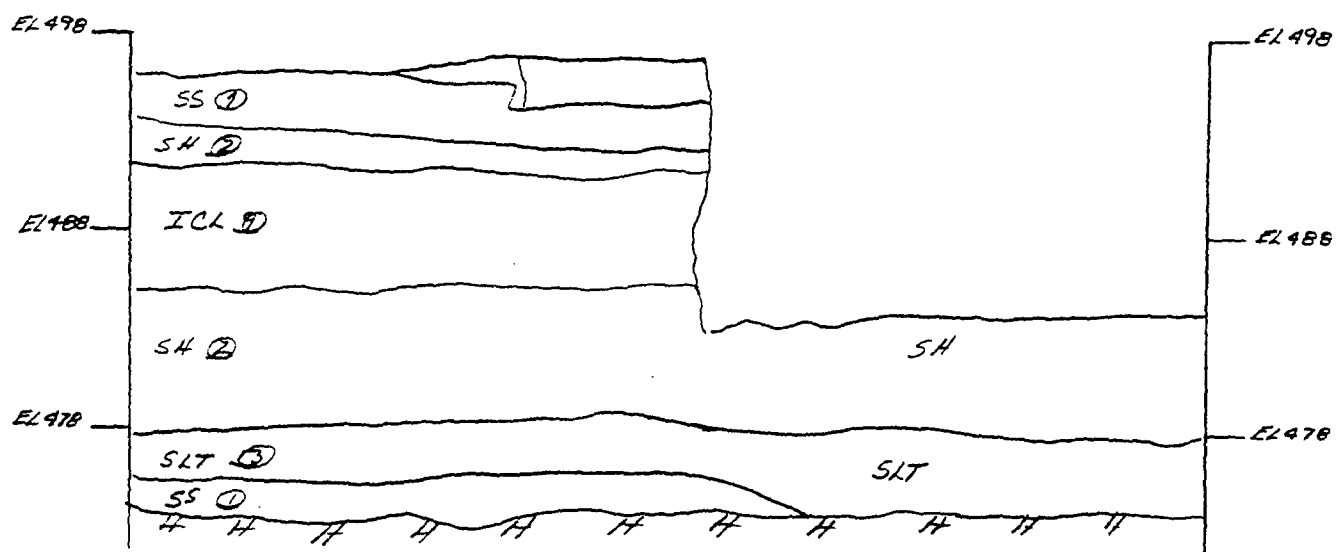
WEST SIDE WALL



STA 13+05.8

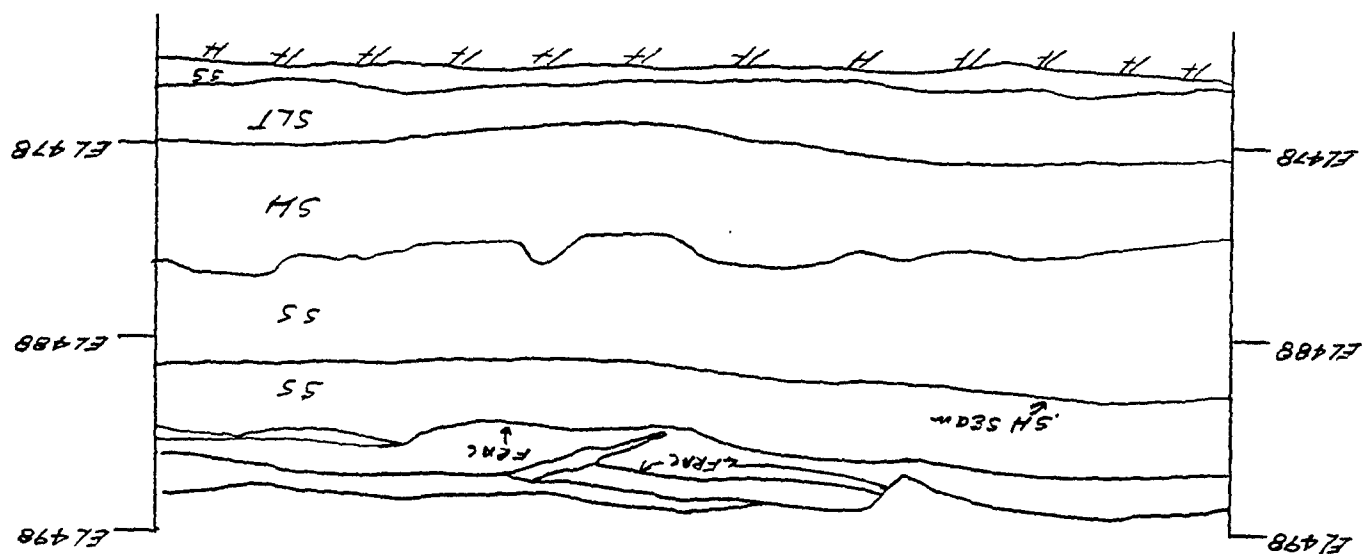
STA 12+49.8





WEST SIDE WALL

EAST SIDE WALL



U.S. Army Corps of Engineers

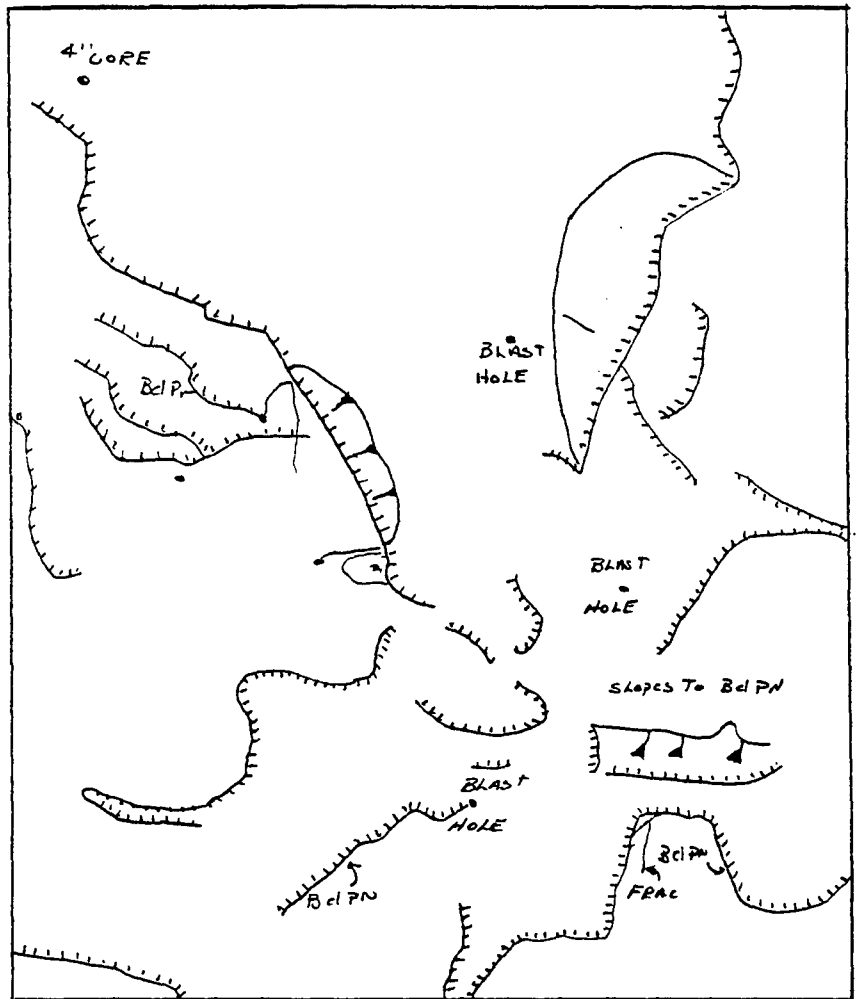
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 7

STA 12+49B

STA 12+05B

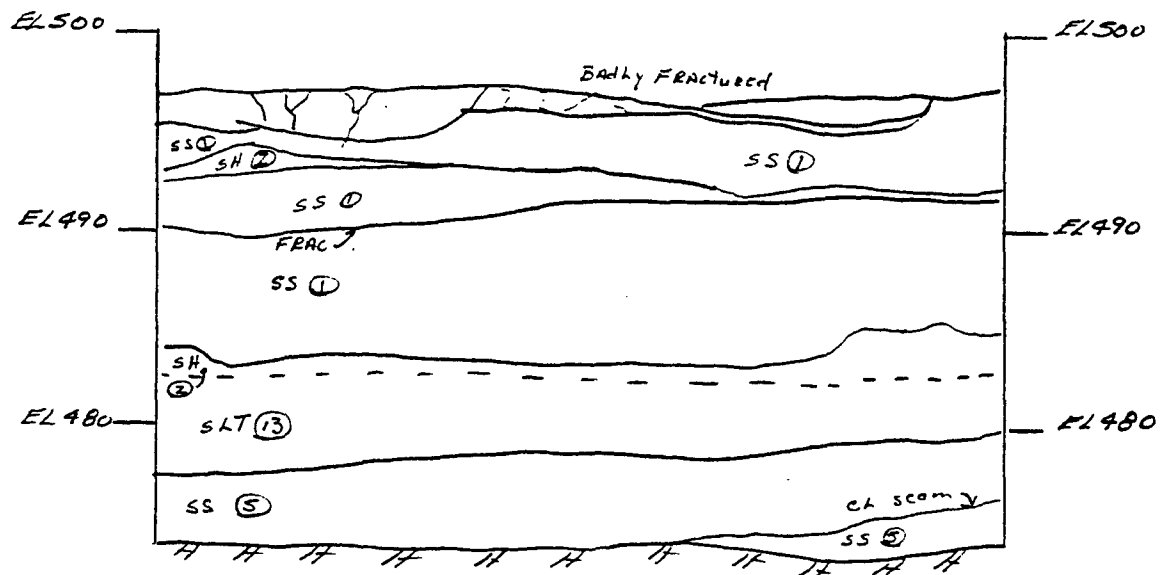
M-7

M-9

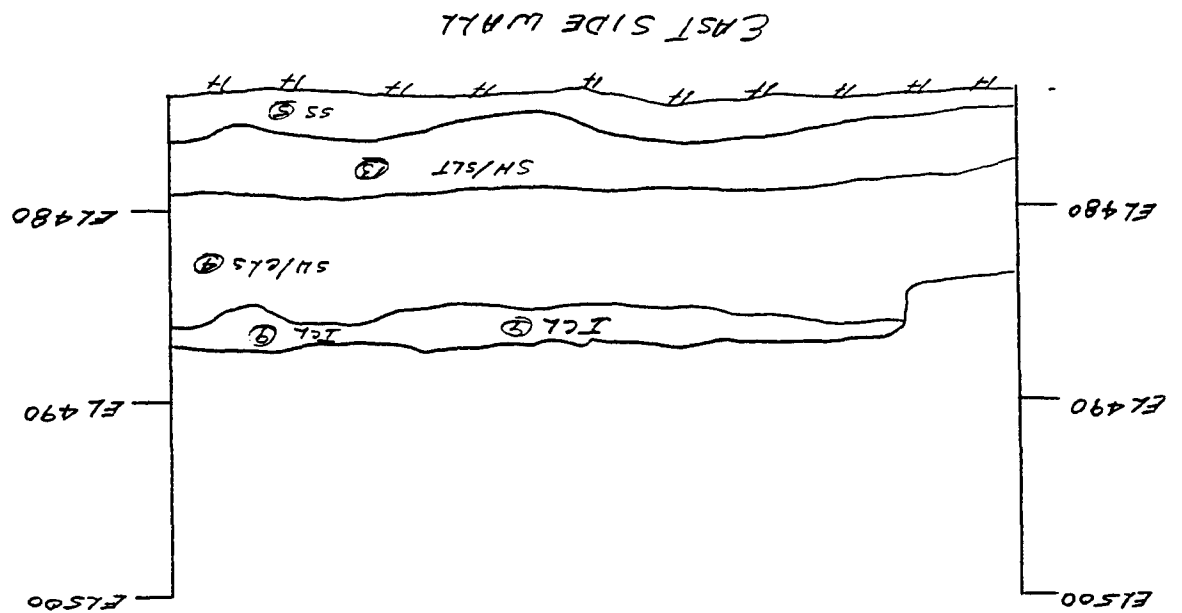


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 8

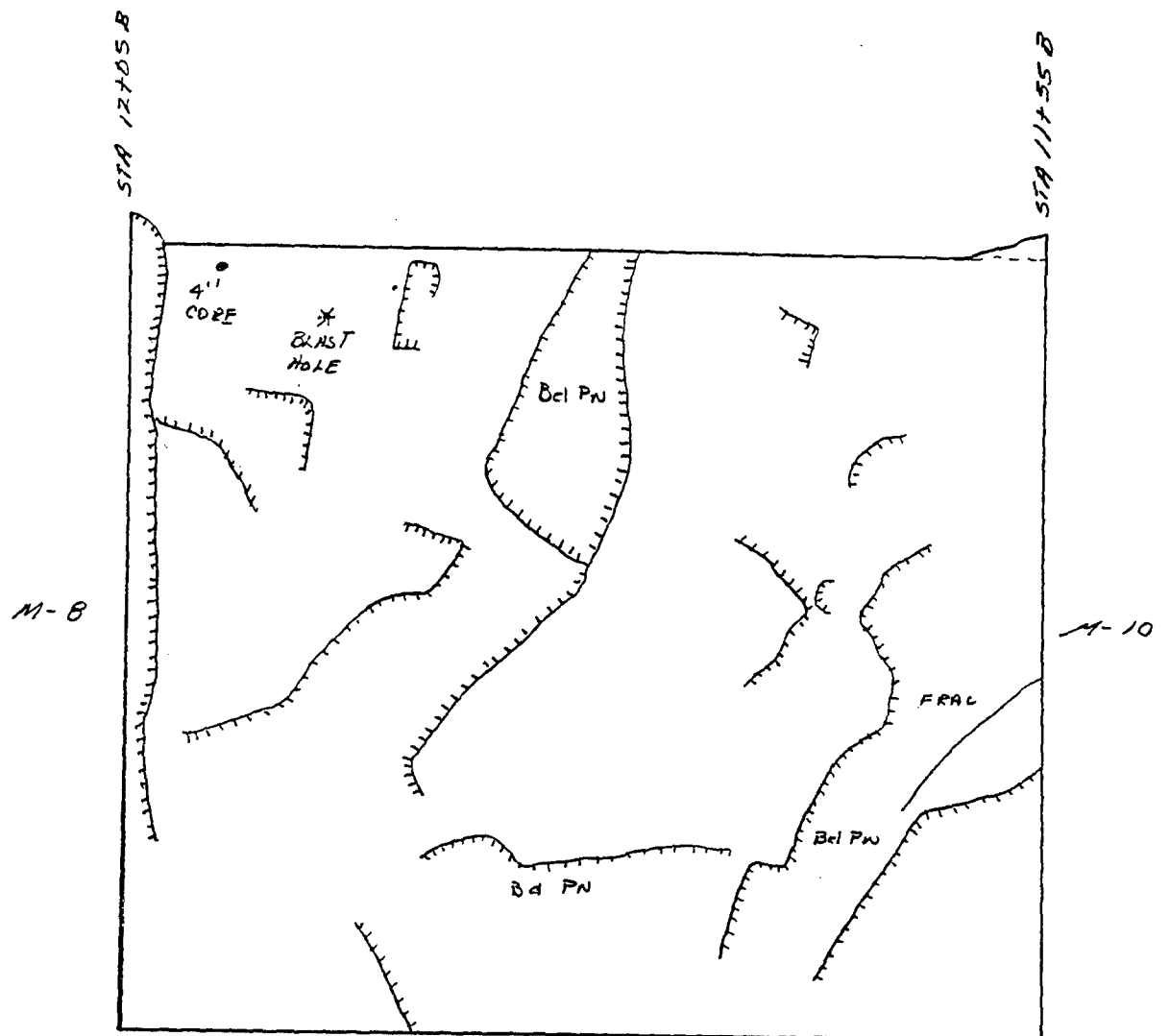


WEST SIDE WALL



U.S. Army Corps of Engineers

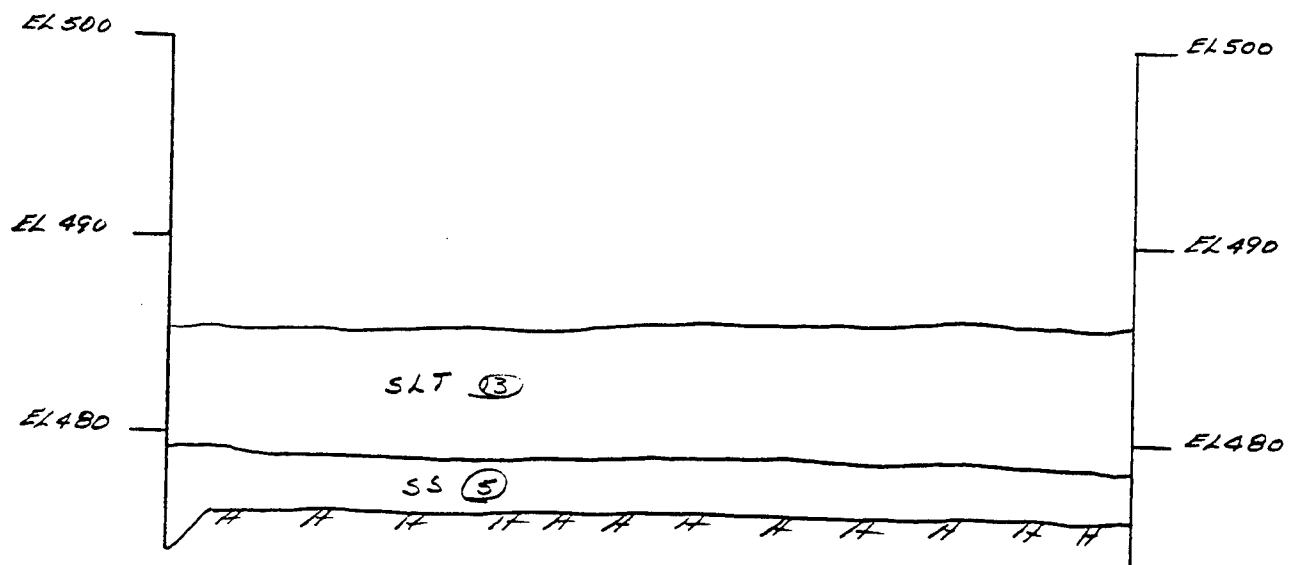
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 8



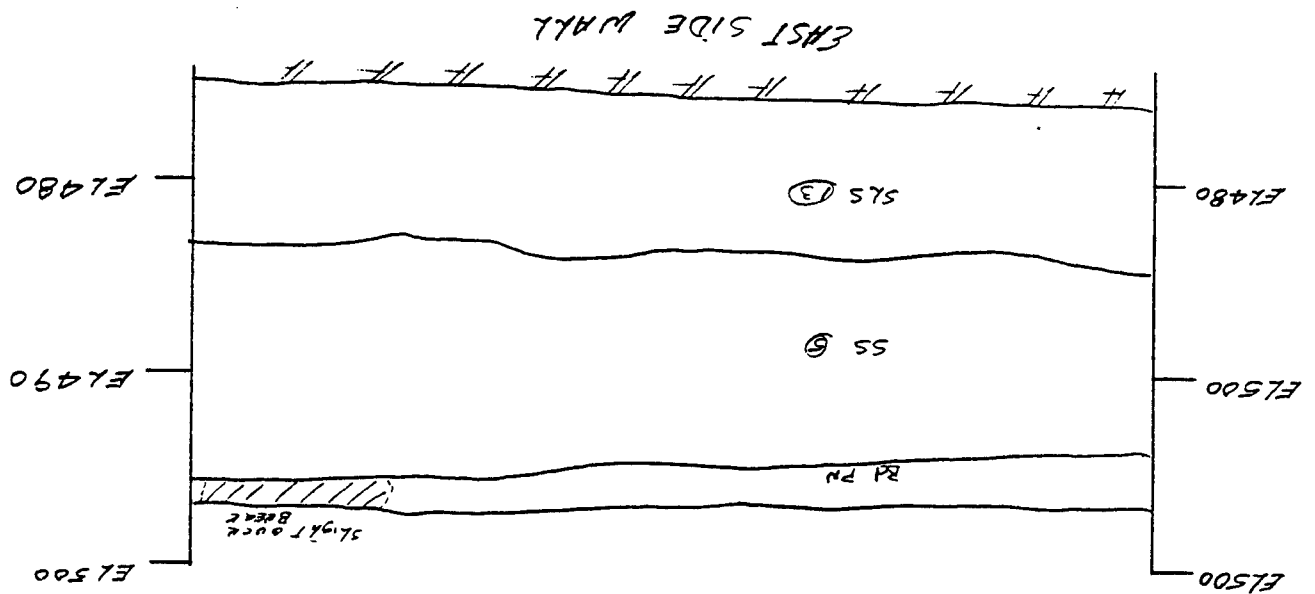
U. S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 9





WEST SIDE WALL

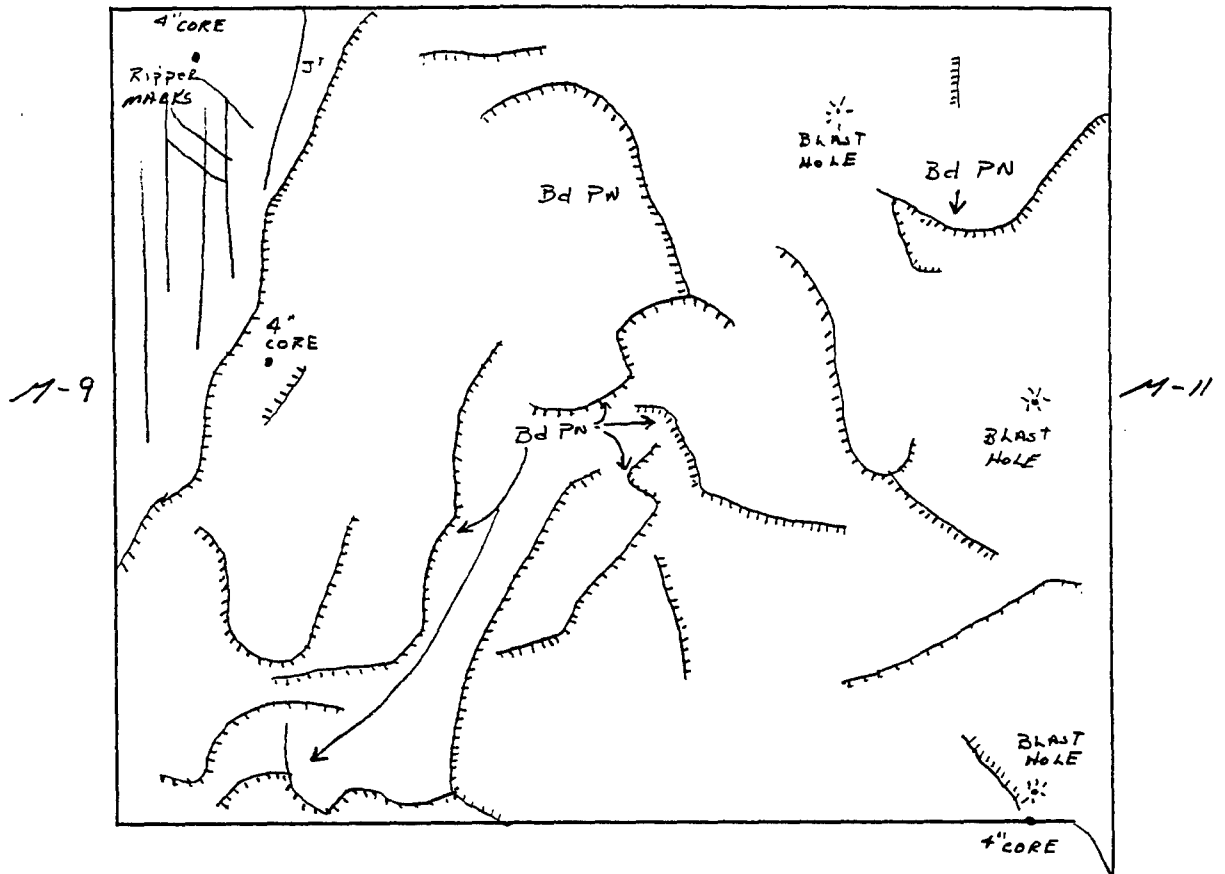


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 9

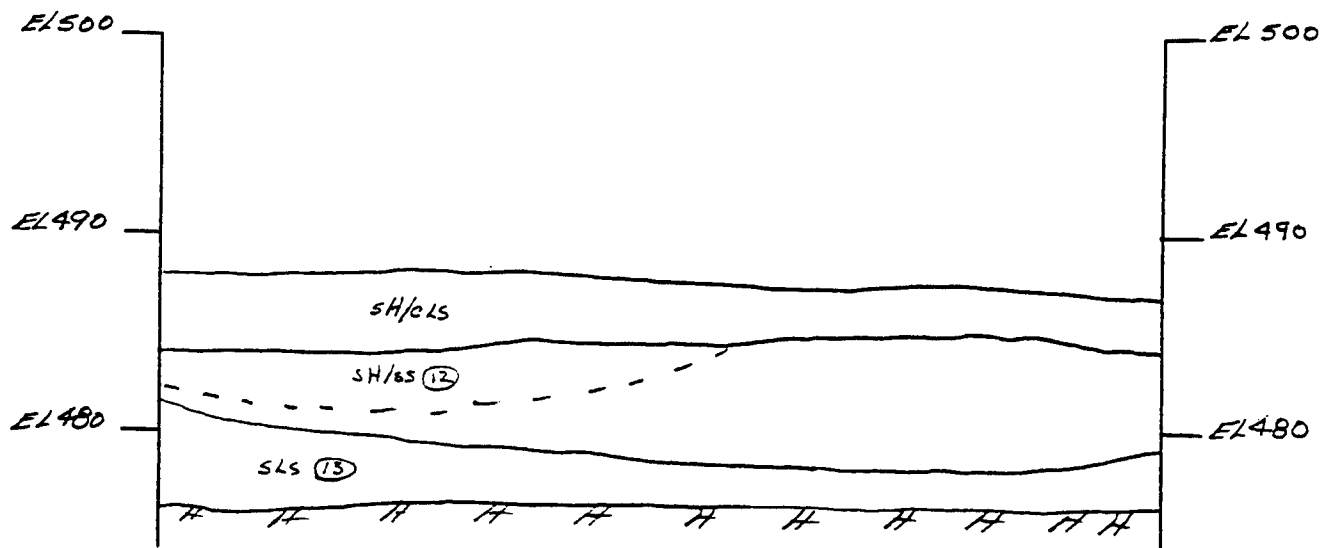
STA 11+55 B

STA 11+03 B

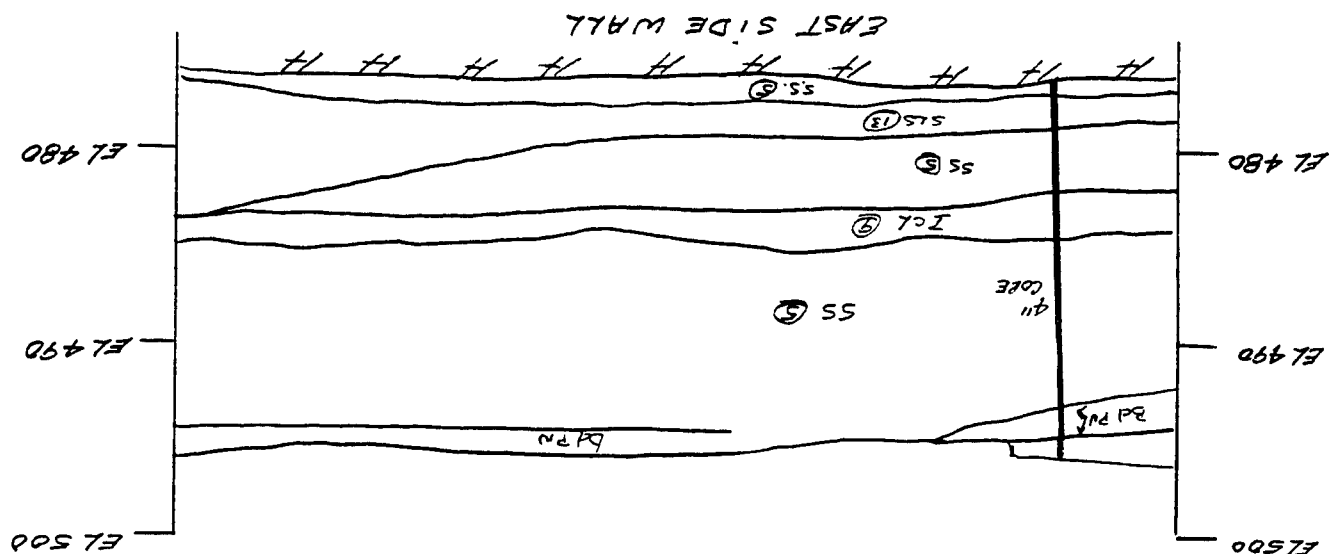


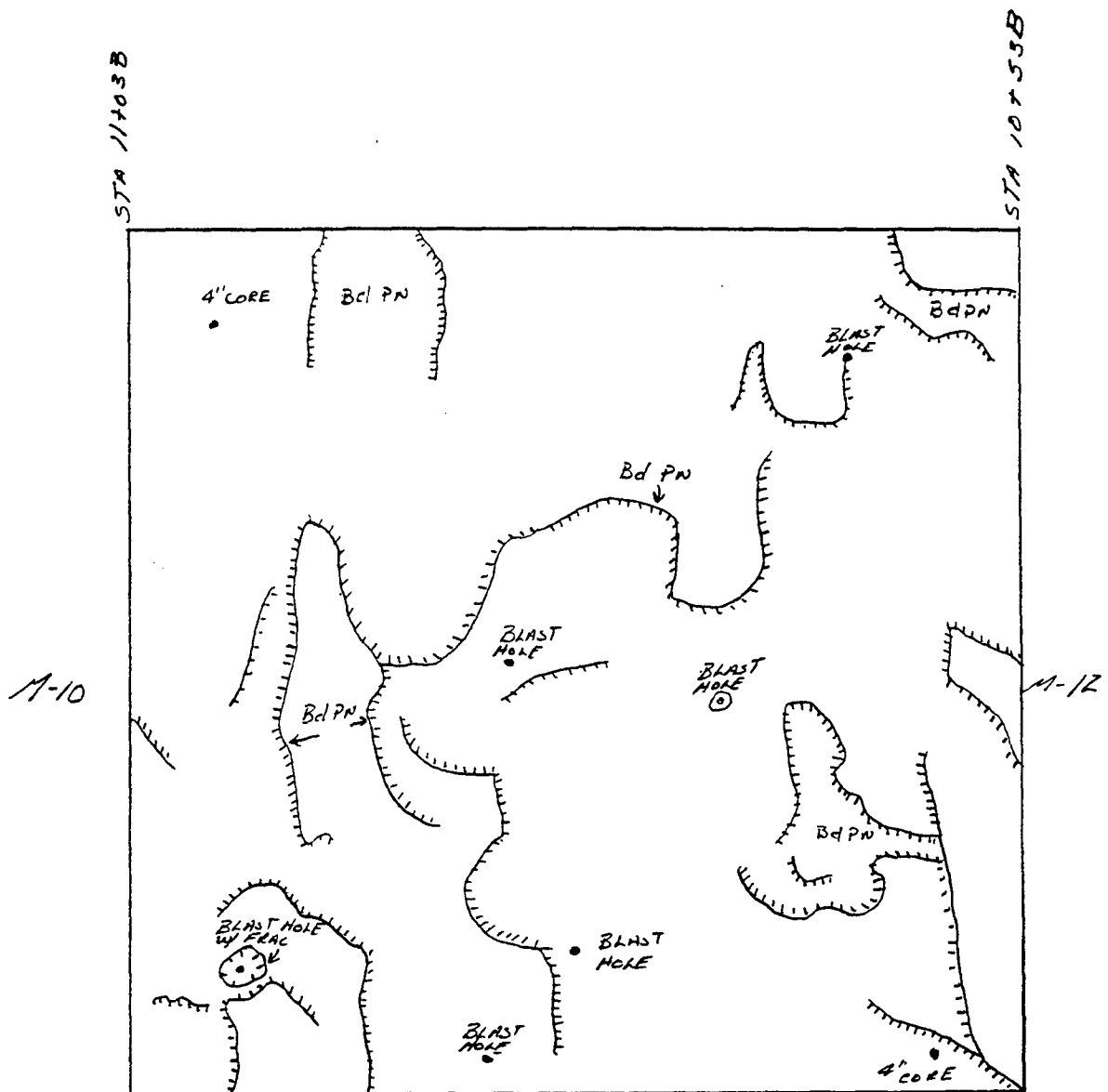
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 10



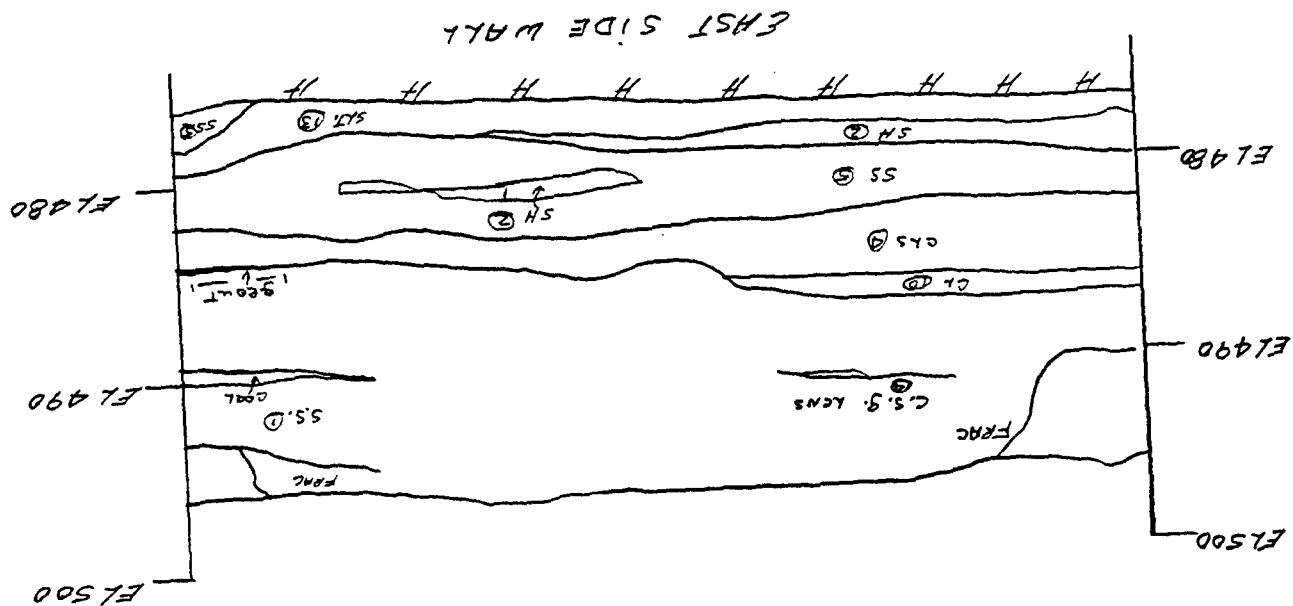
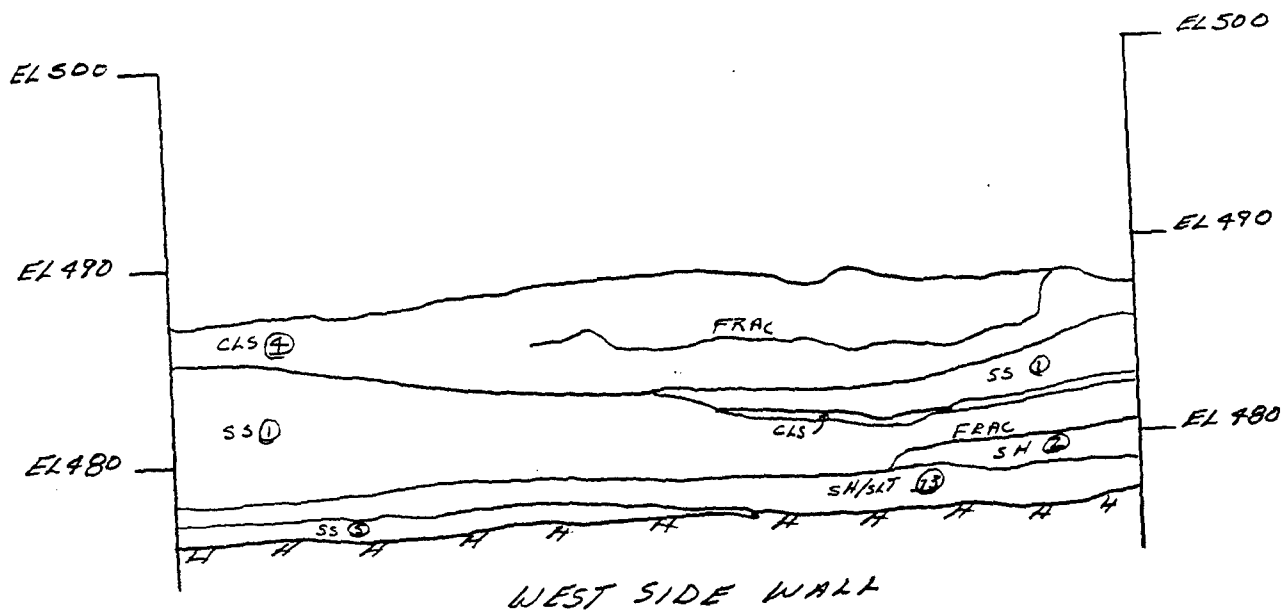
WEST SIDE WALL





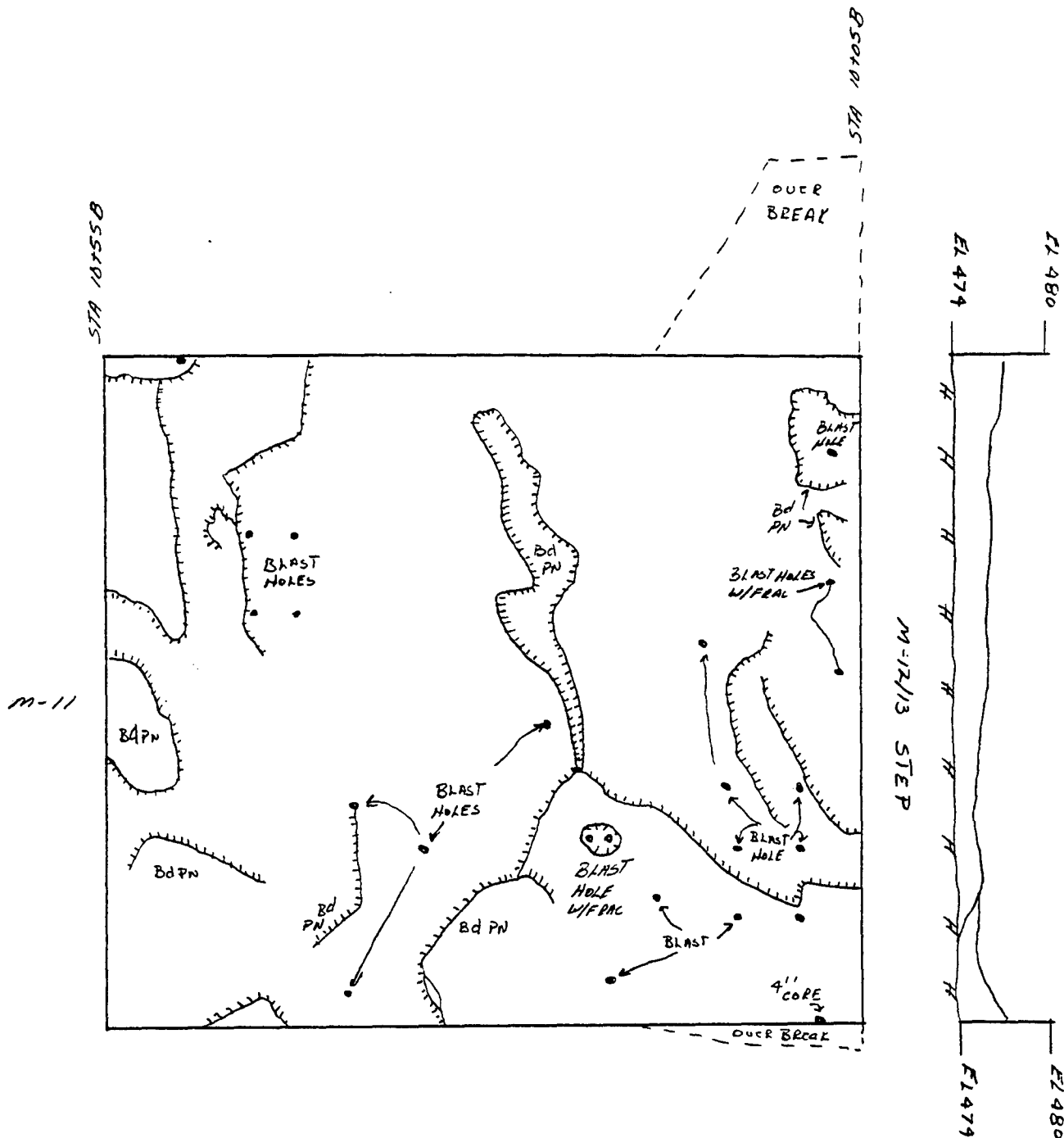
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 11



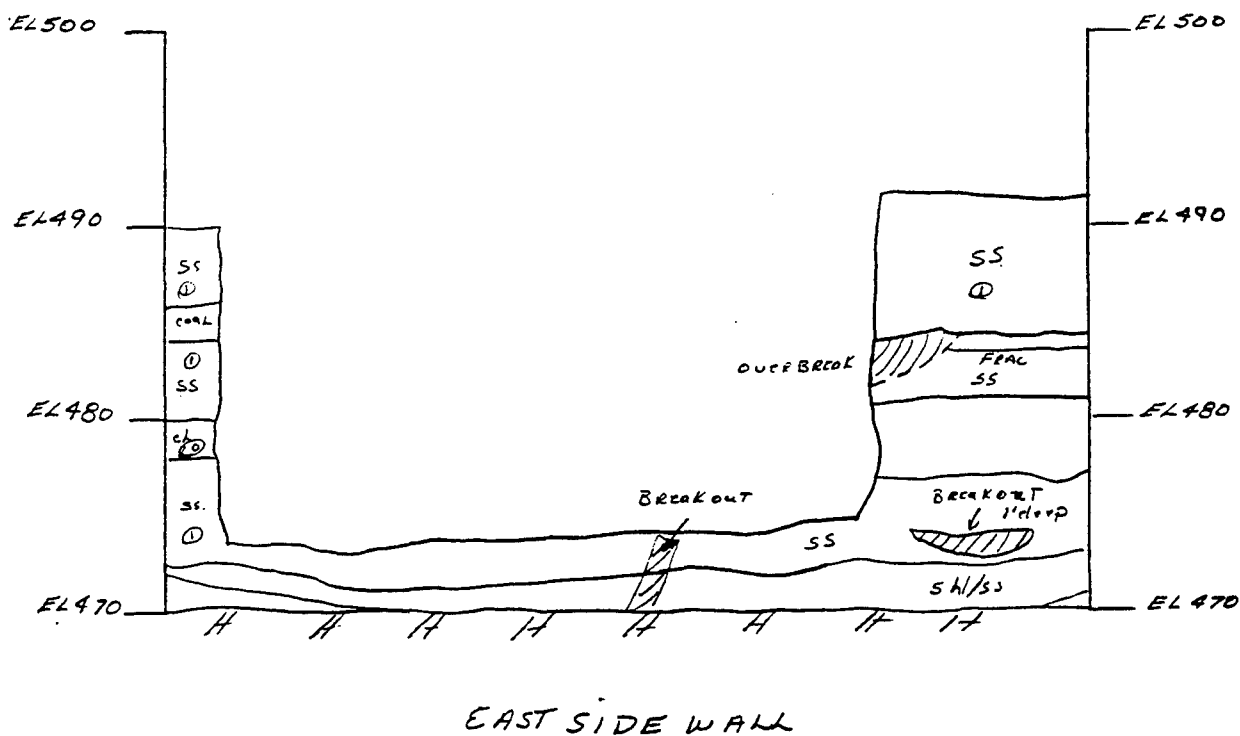
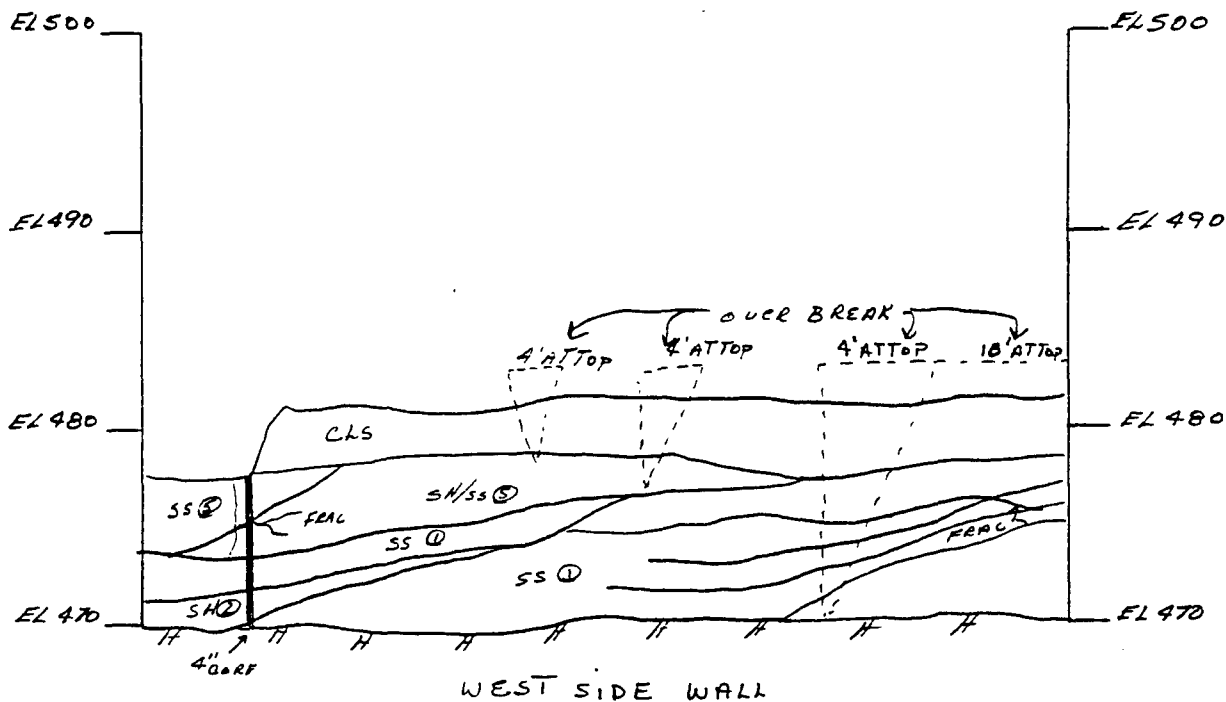
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 11



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 12

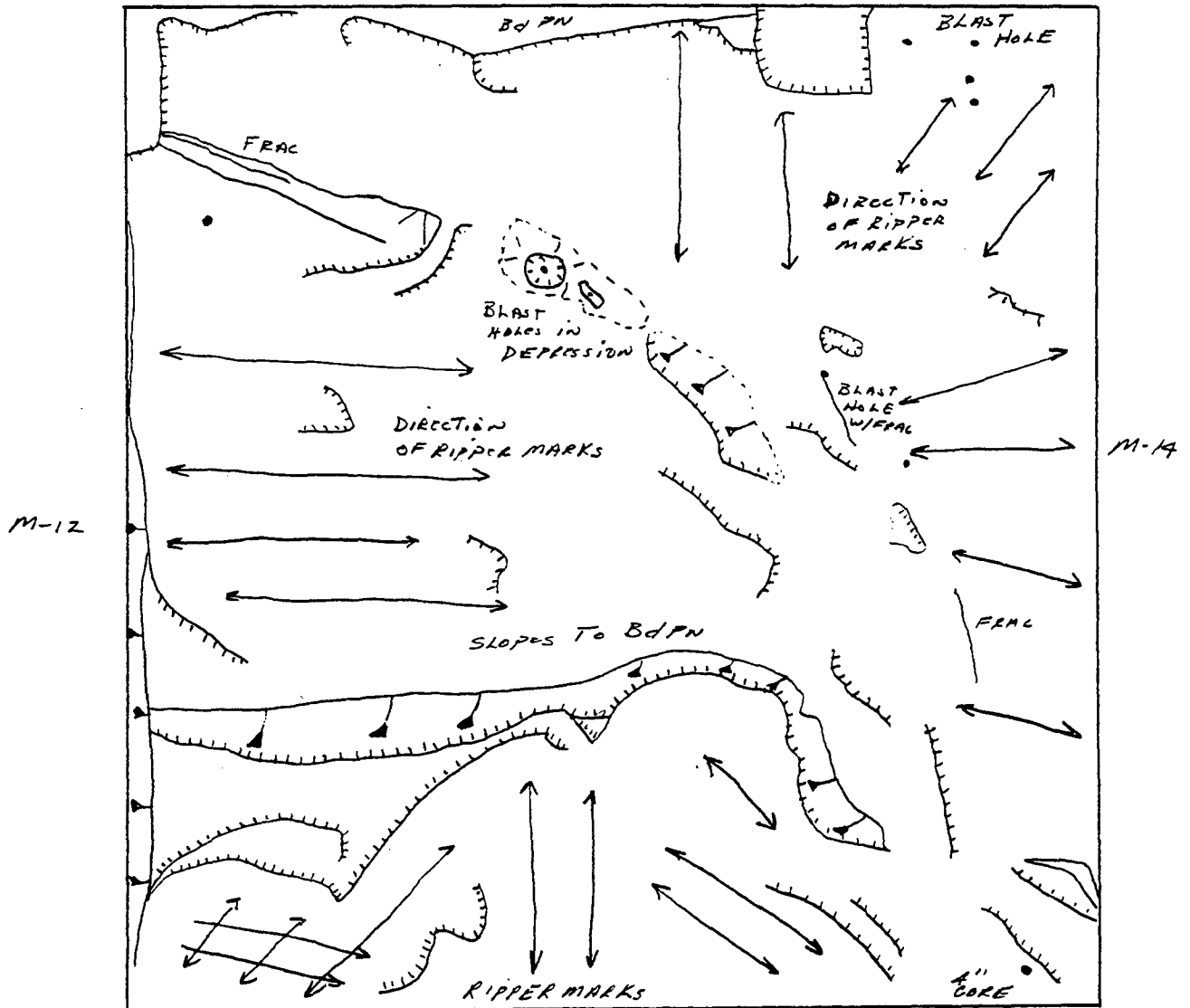


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 12

STA 10+05.8

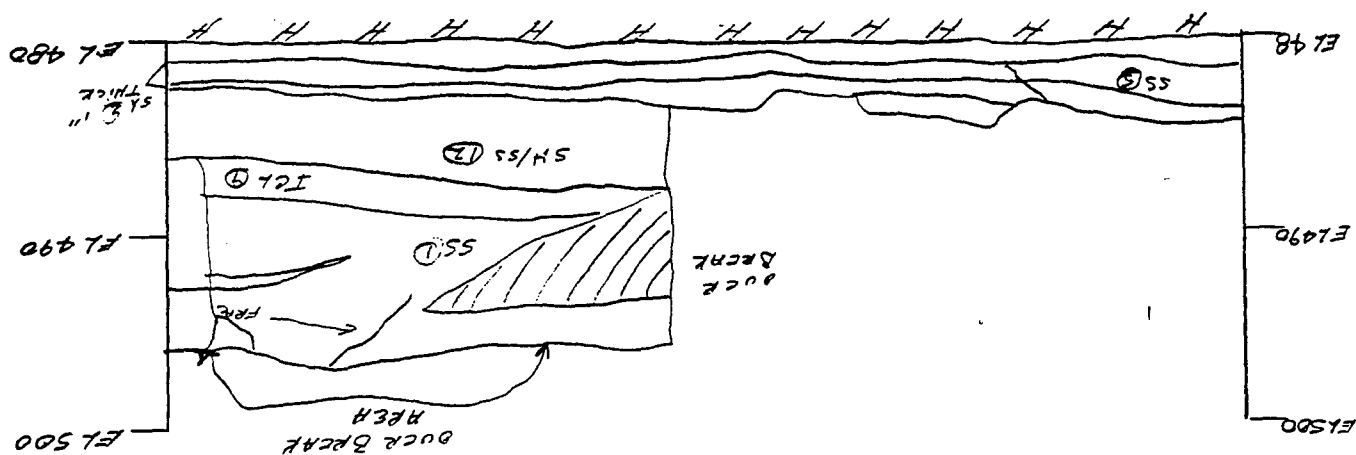
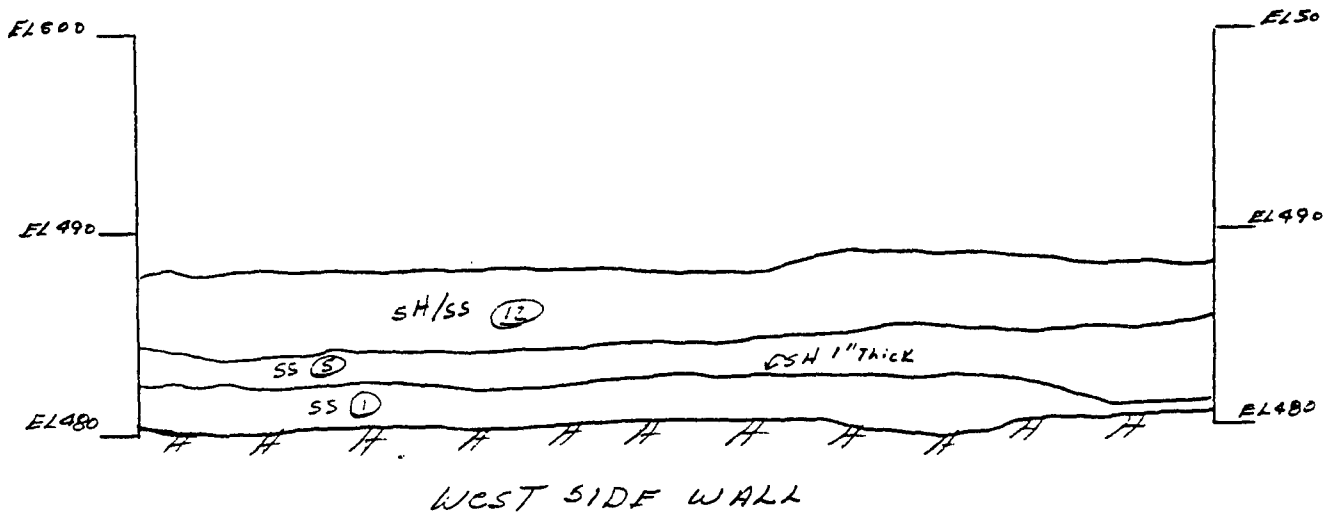
STA 9+49.8



U.S. Army Corps of Engineers

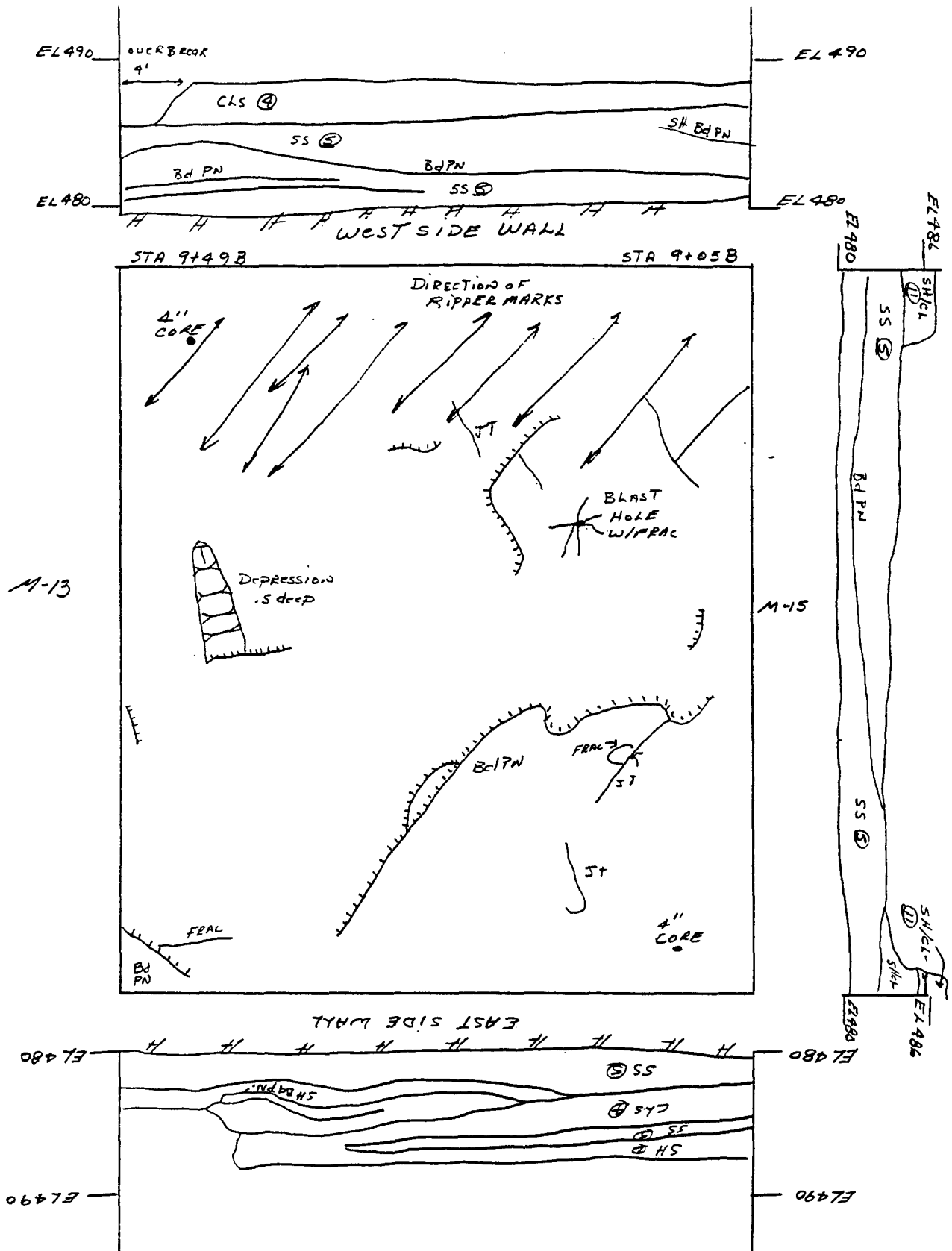
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 13





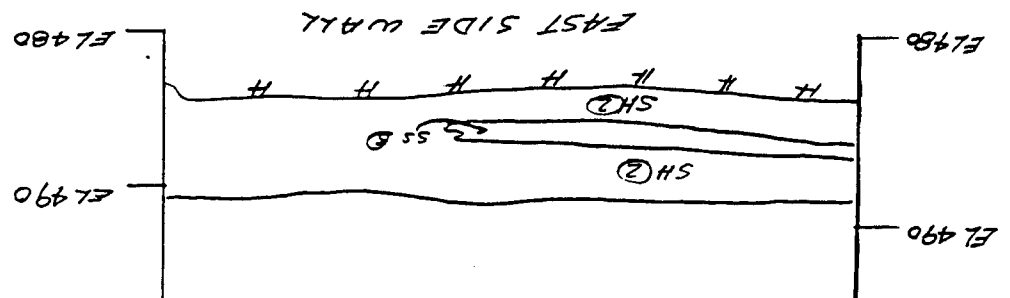
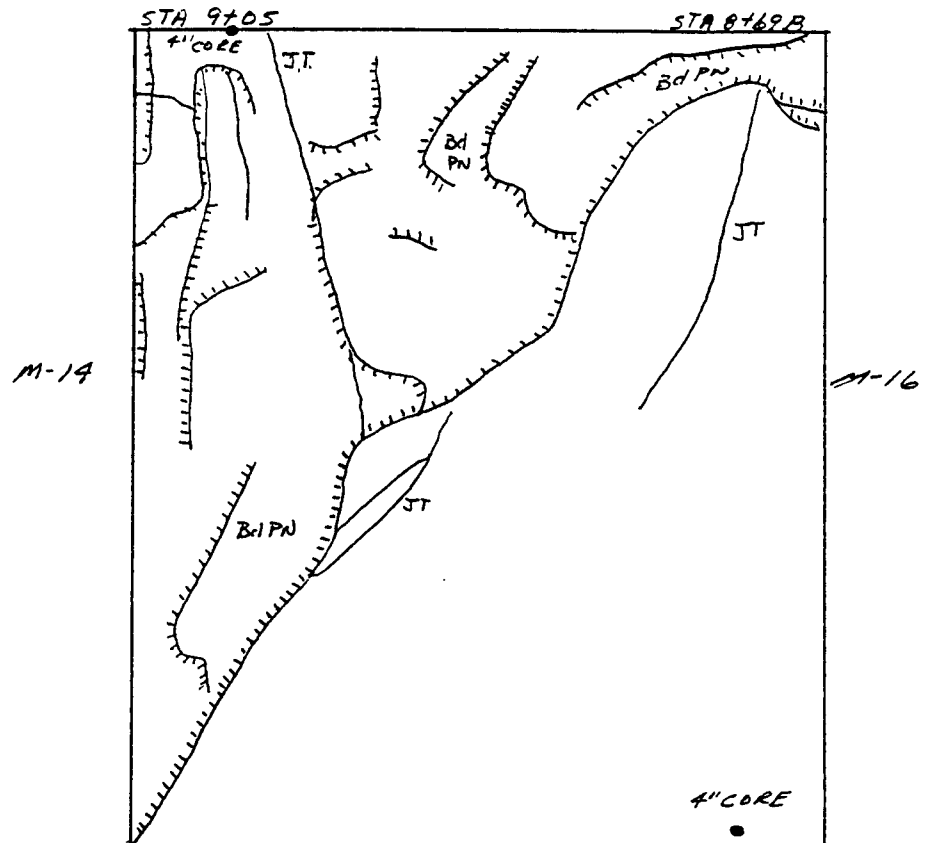
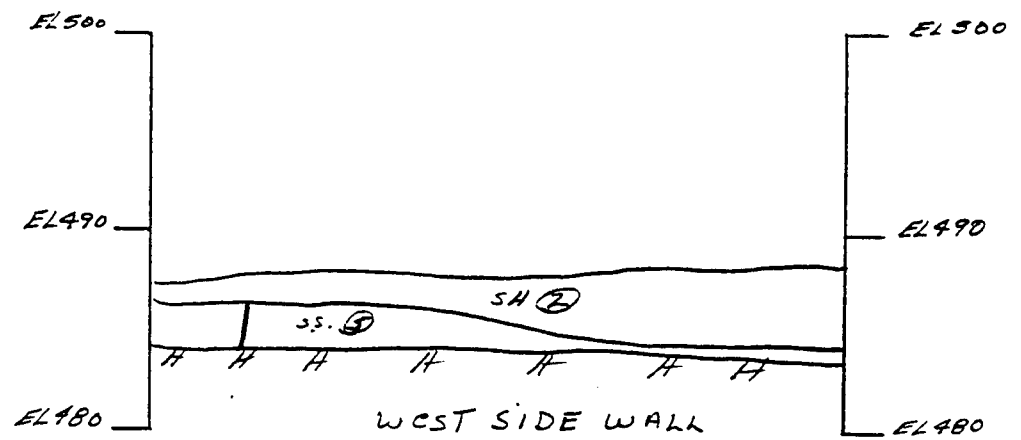
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 13



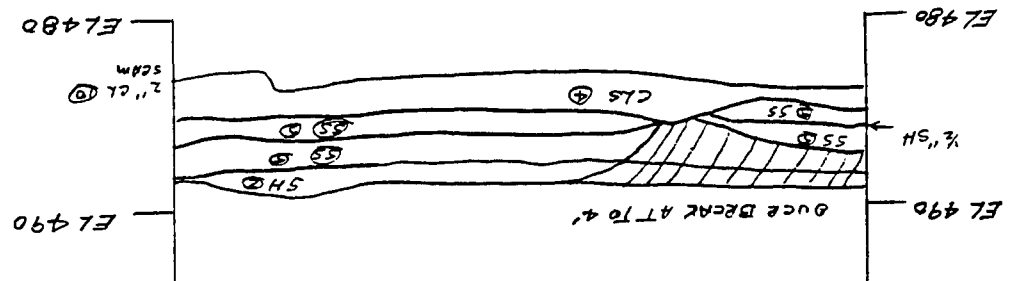
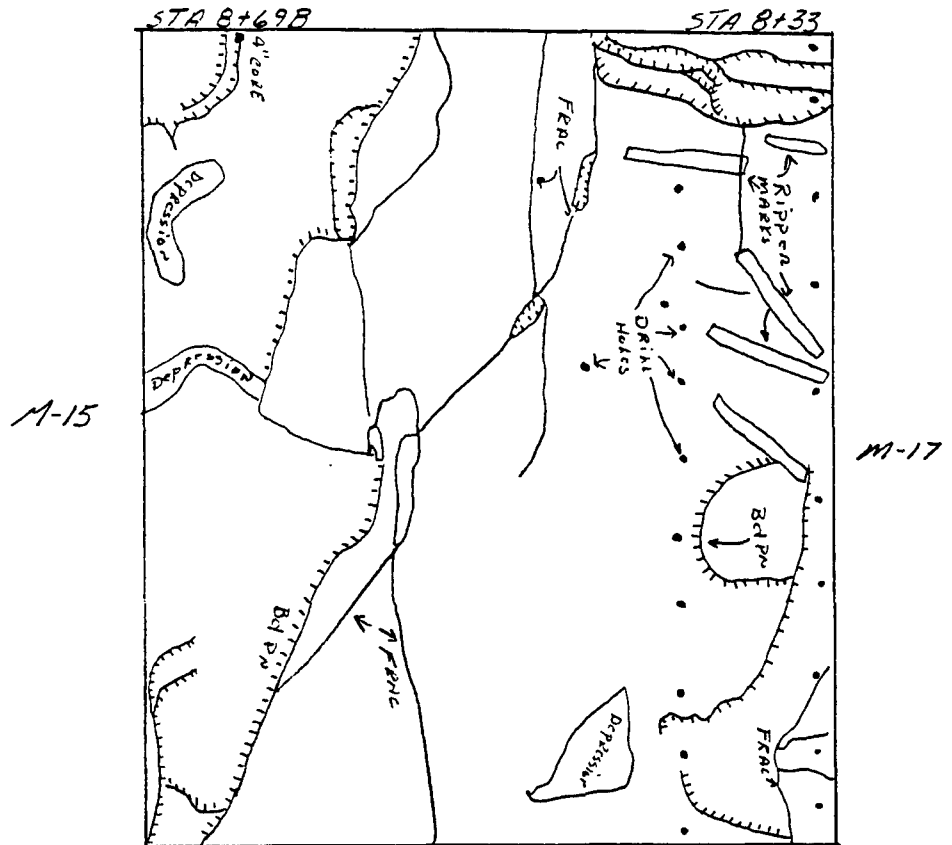
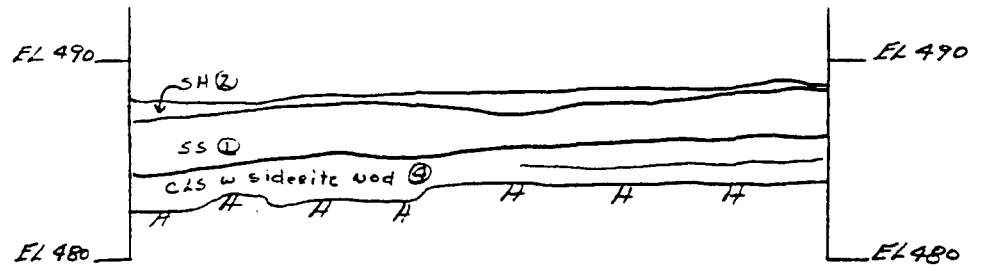
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 14



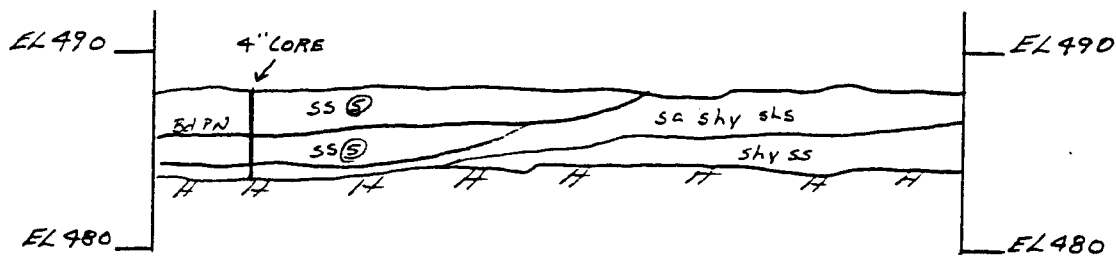
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 15



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 16



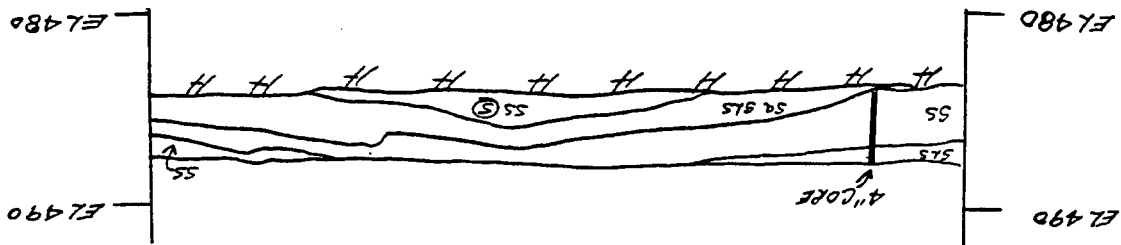
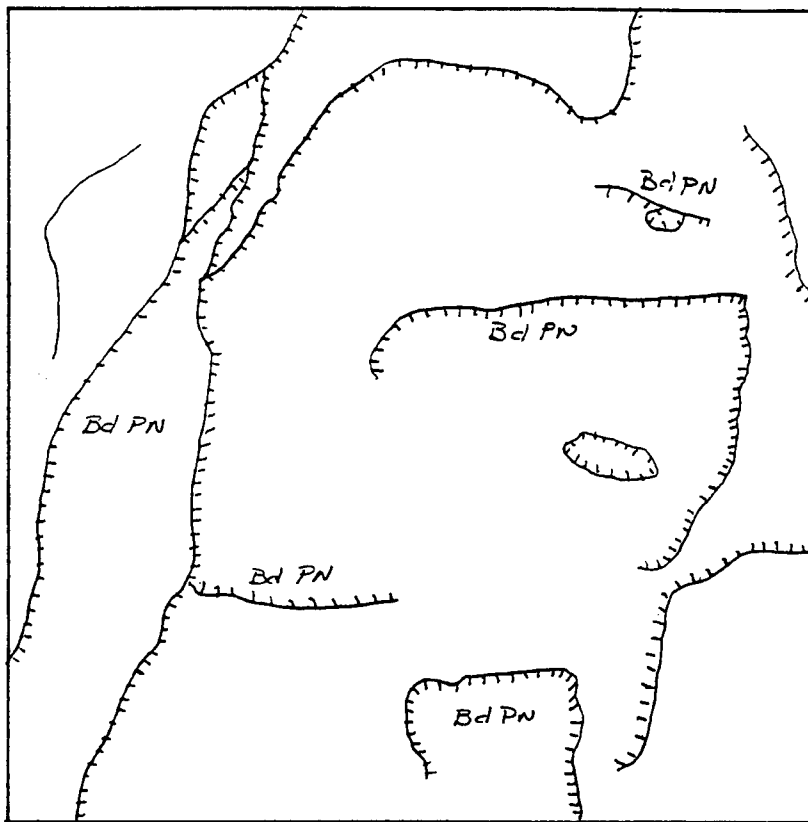
WEST SIDE WALL

STA 8+33.8

STA 71+91.8

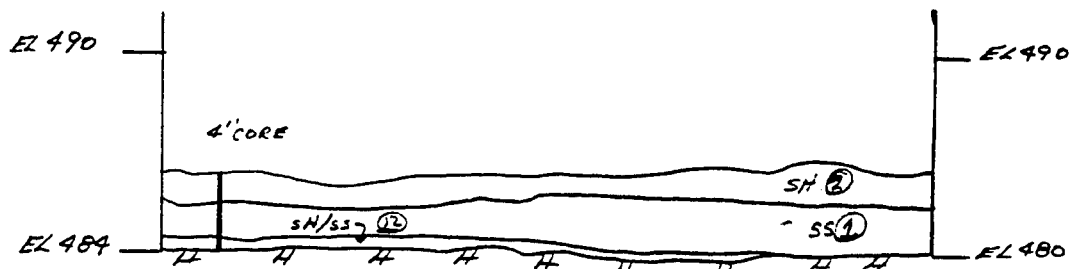
M-16

M-18

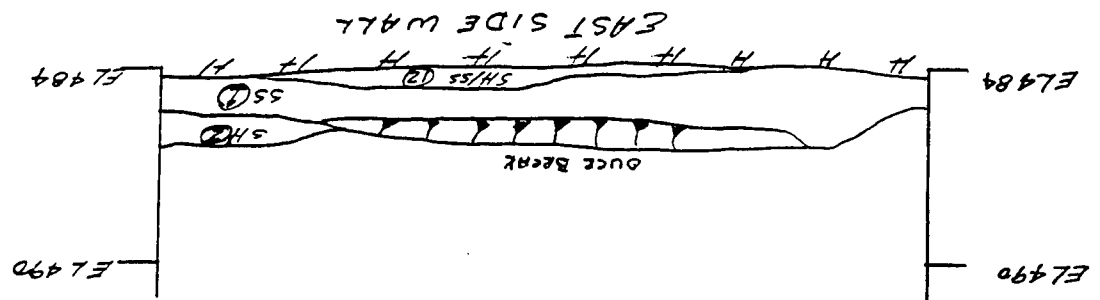
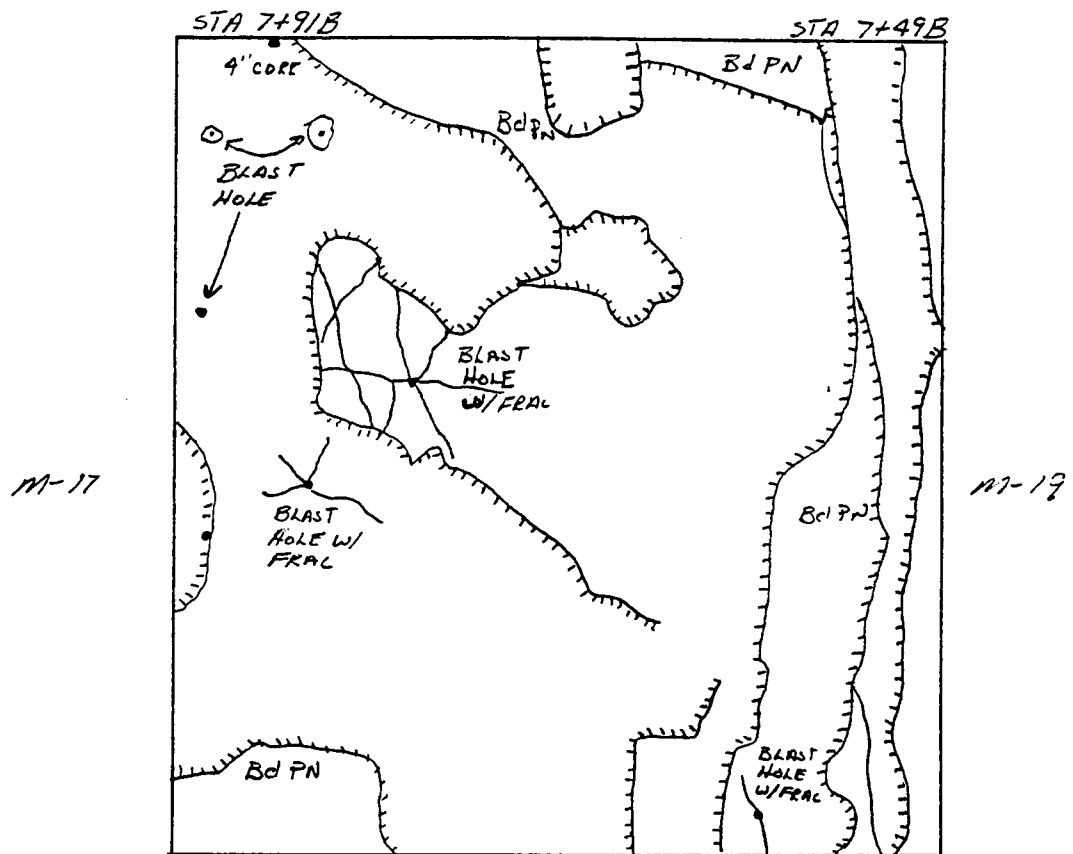


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 17



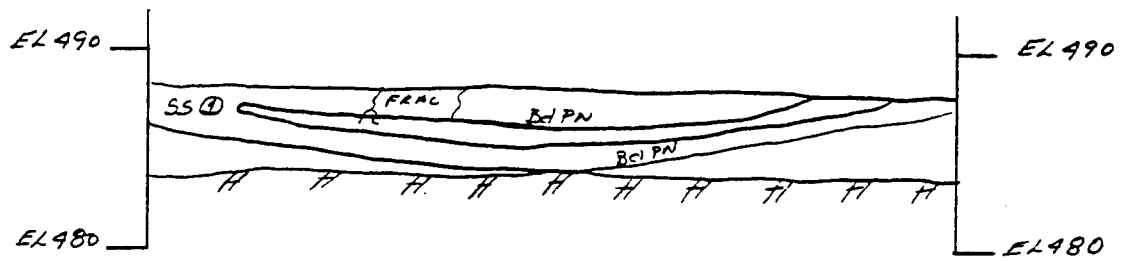
WEST SIDE WALL



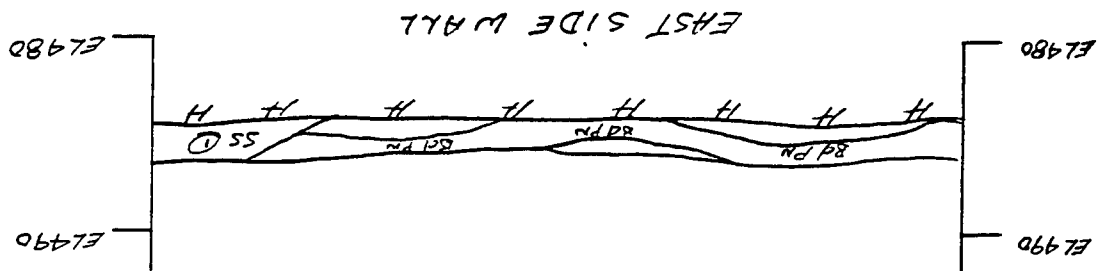
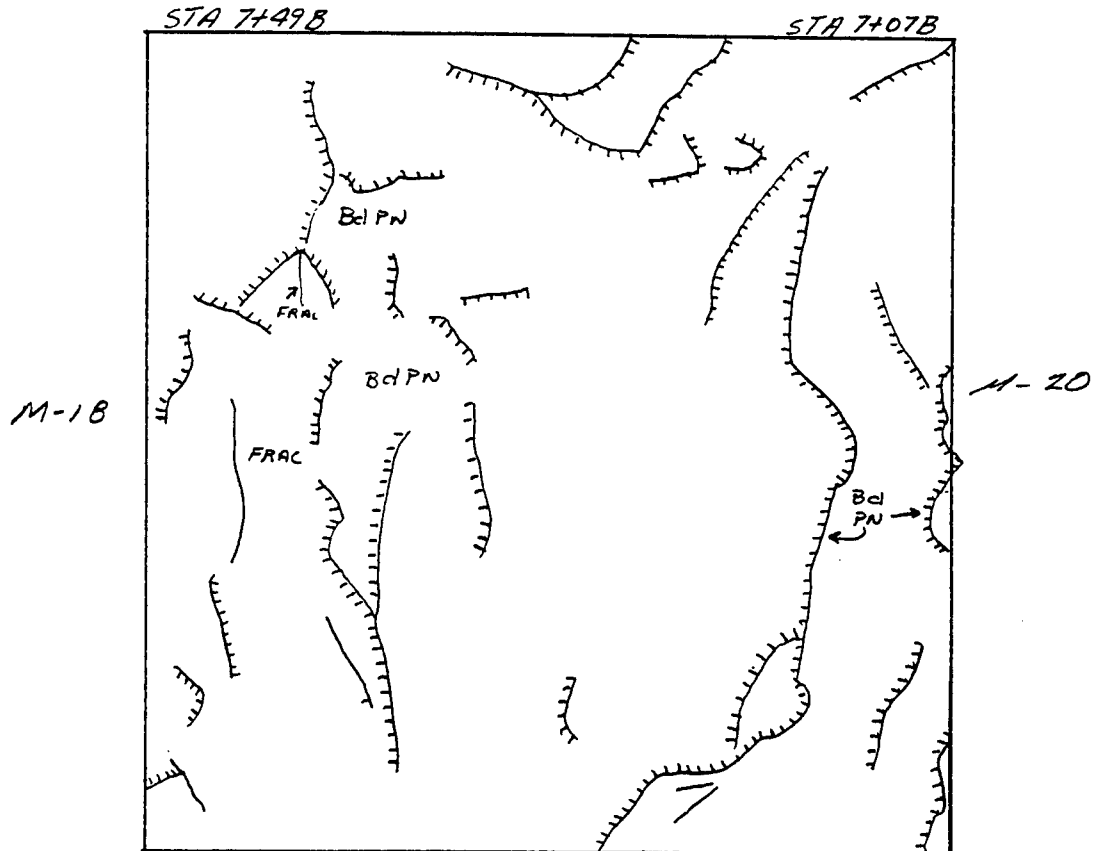
EAST SIDE WALL

U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 18



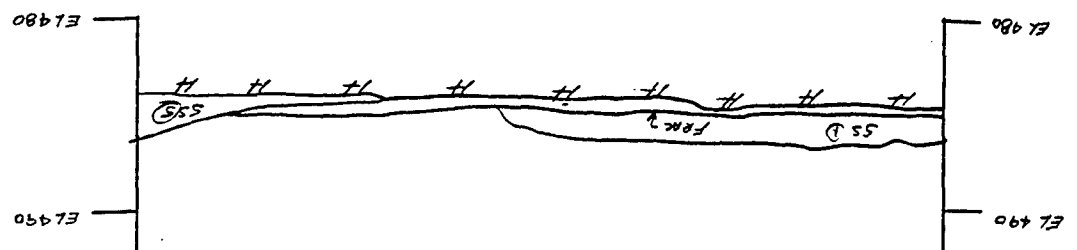
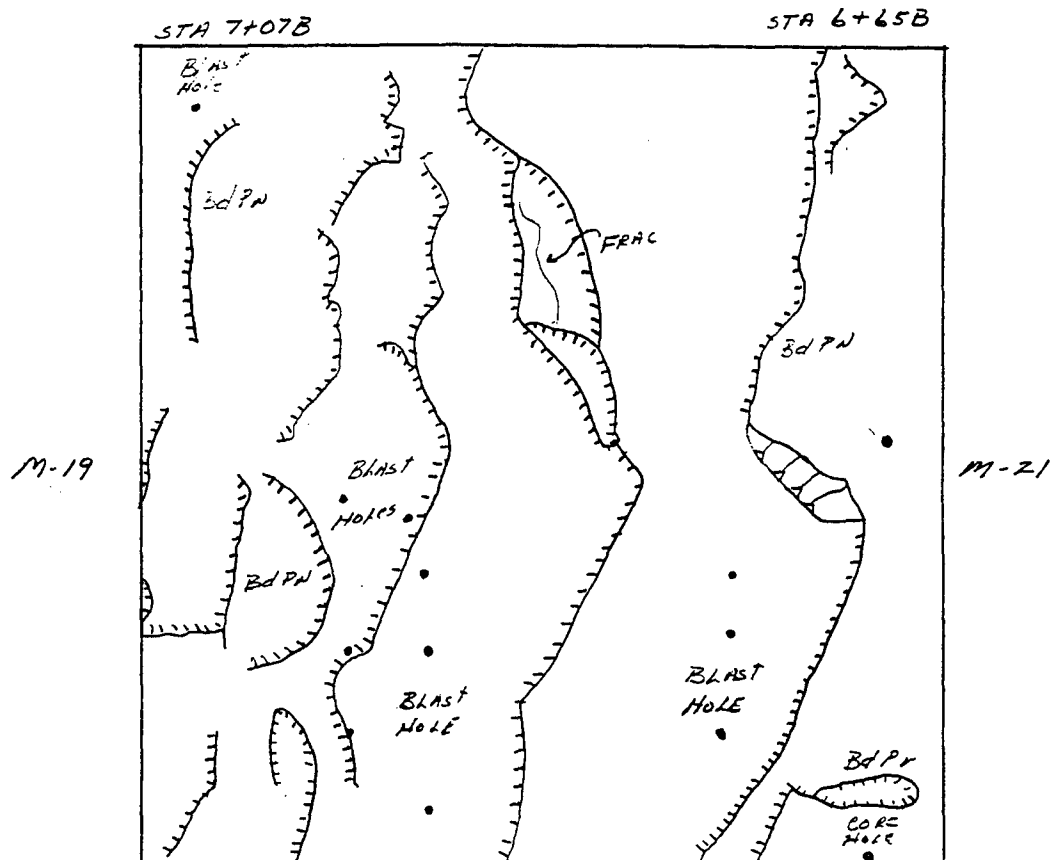
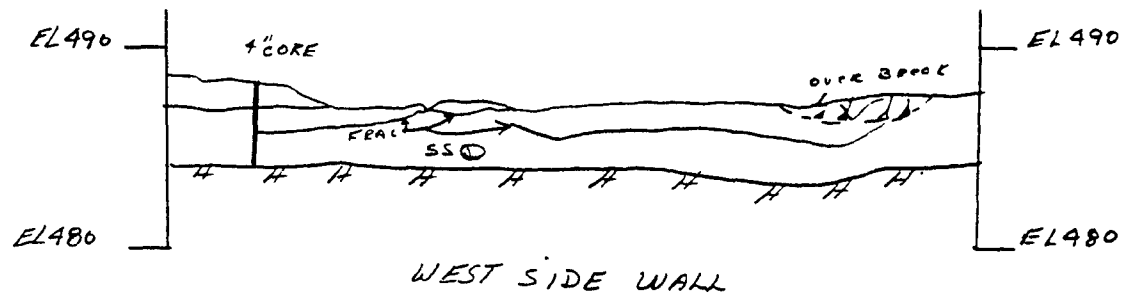
WEST SIDE WALL



EAST SIDE WALL

U.S. Army Corps of Engineers

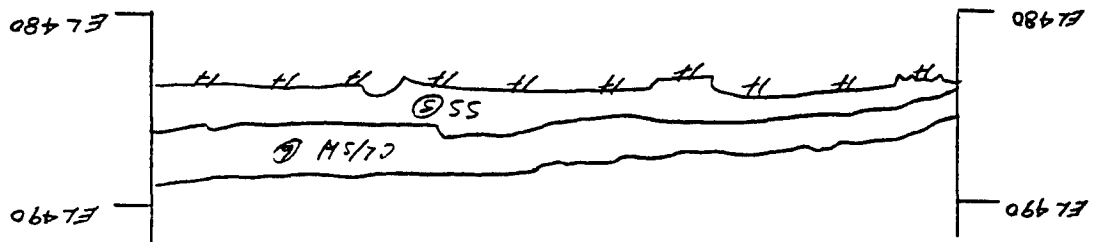
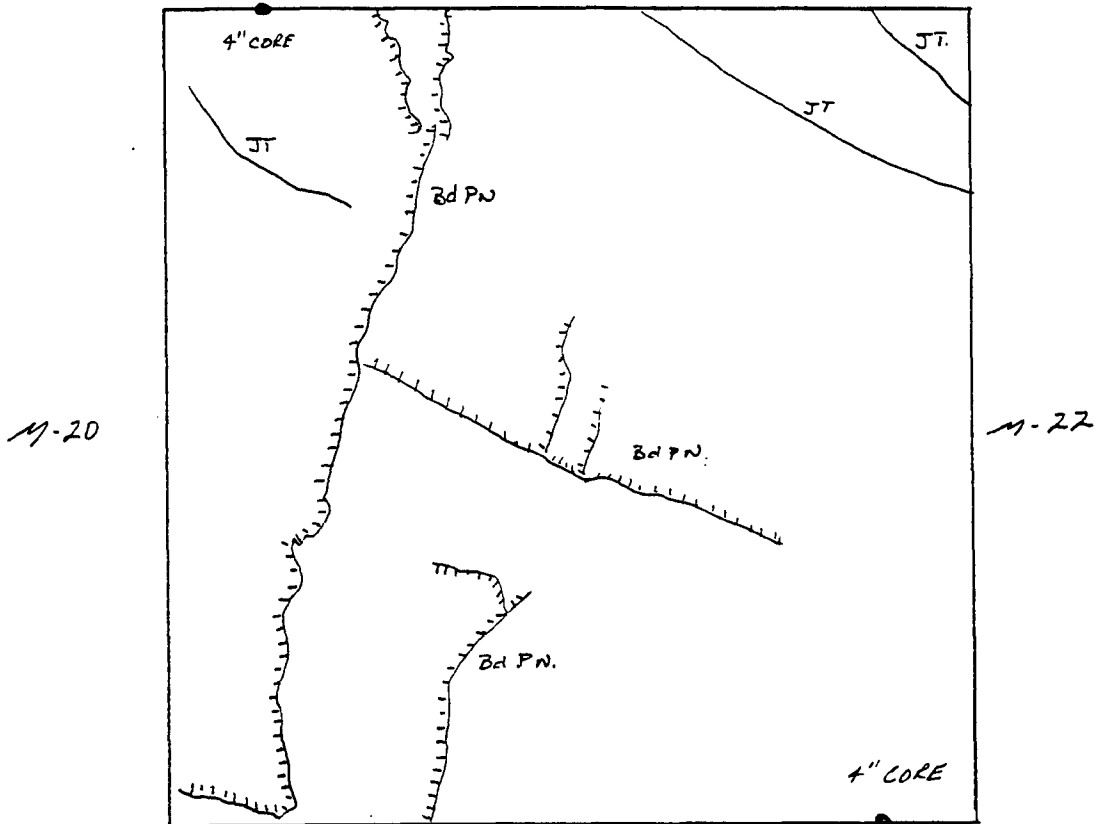
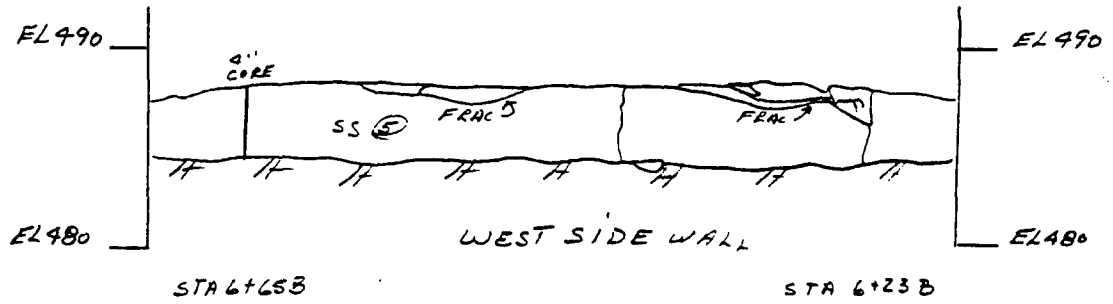
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 19



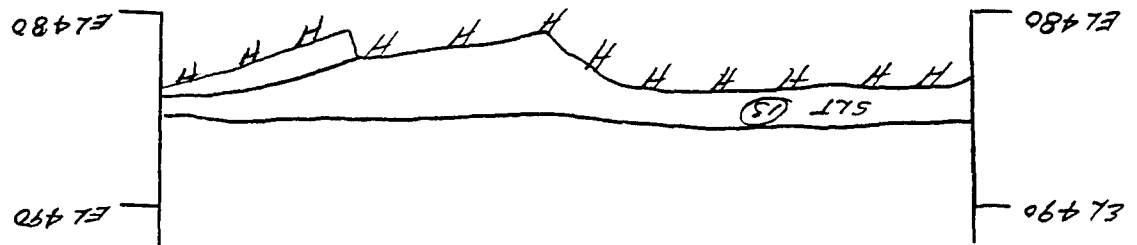
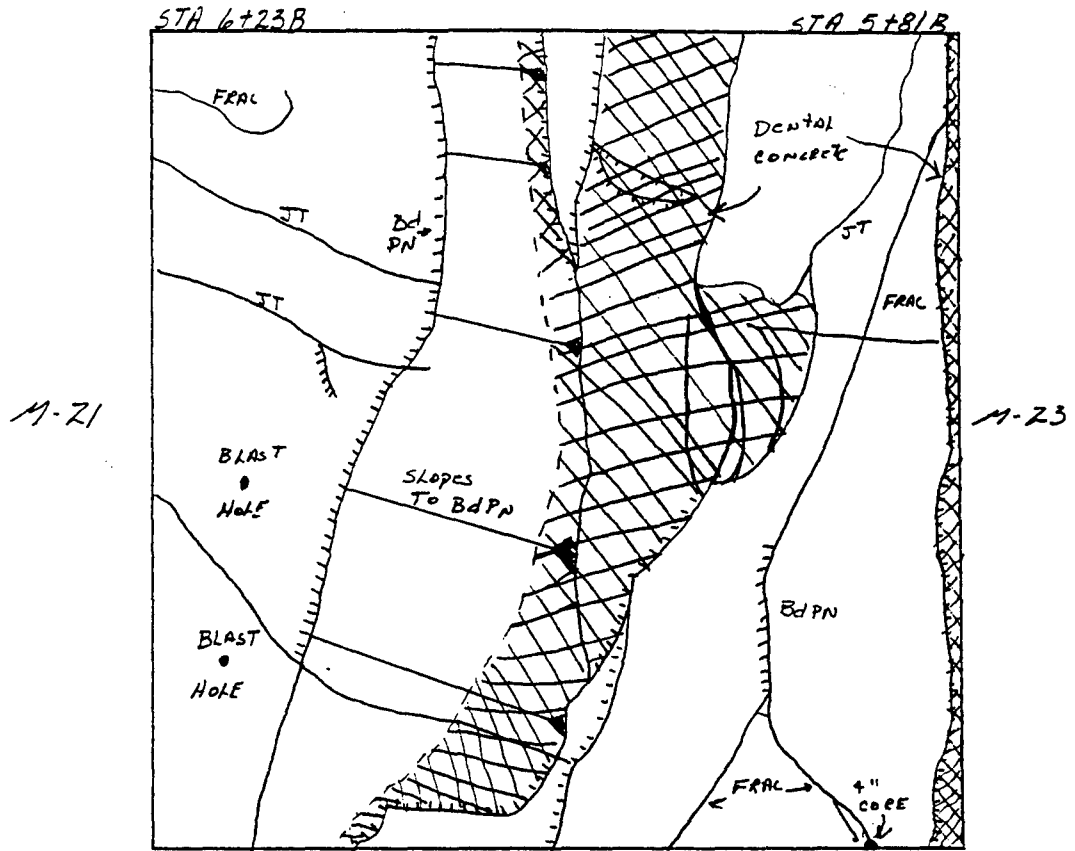
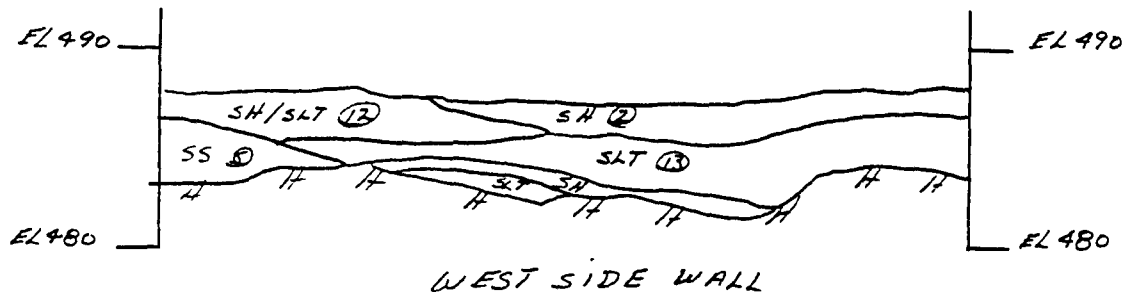
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 20





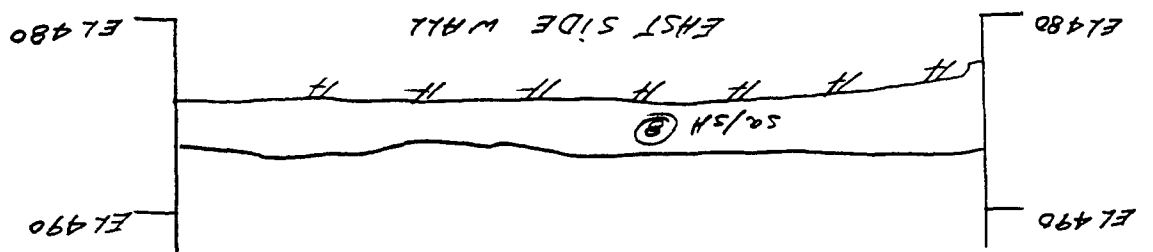
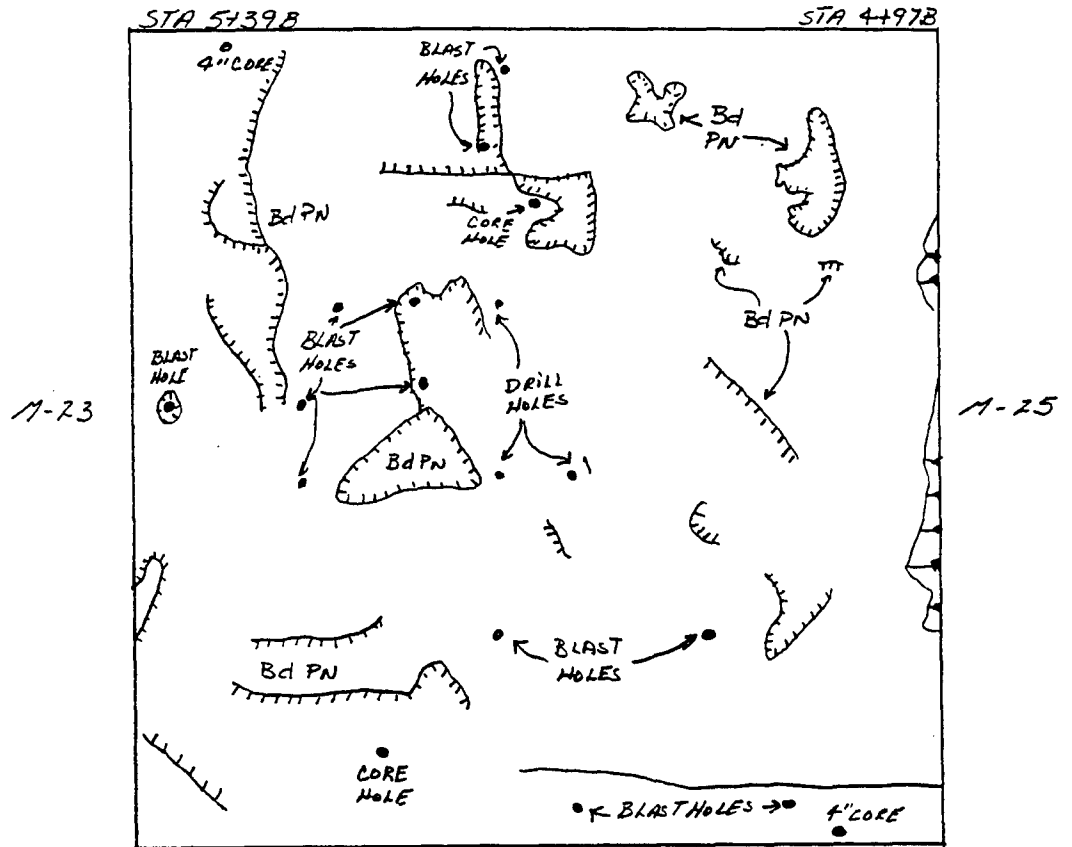
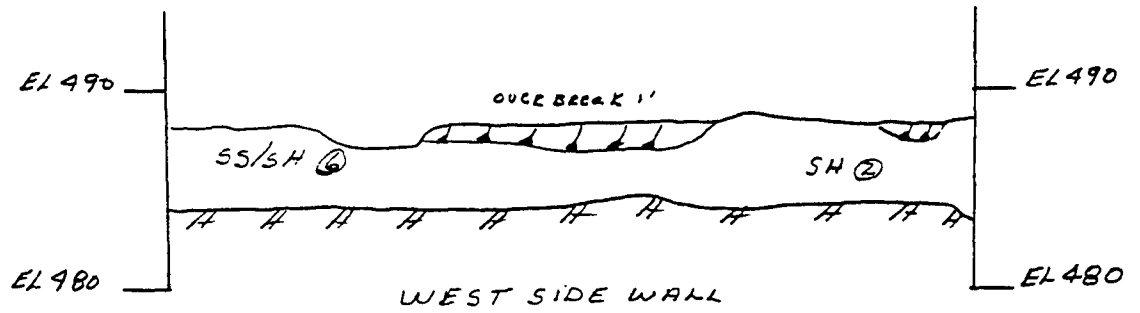
U.S. Army Corps of Engineers  
 Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation Drawing  
 Middle Wall Monolith 21



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 22

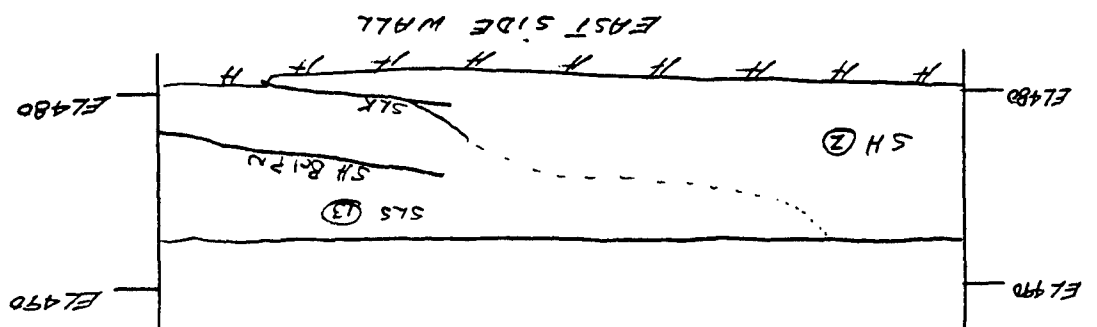
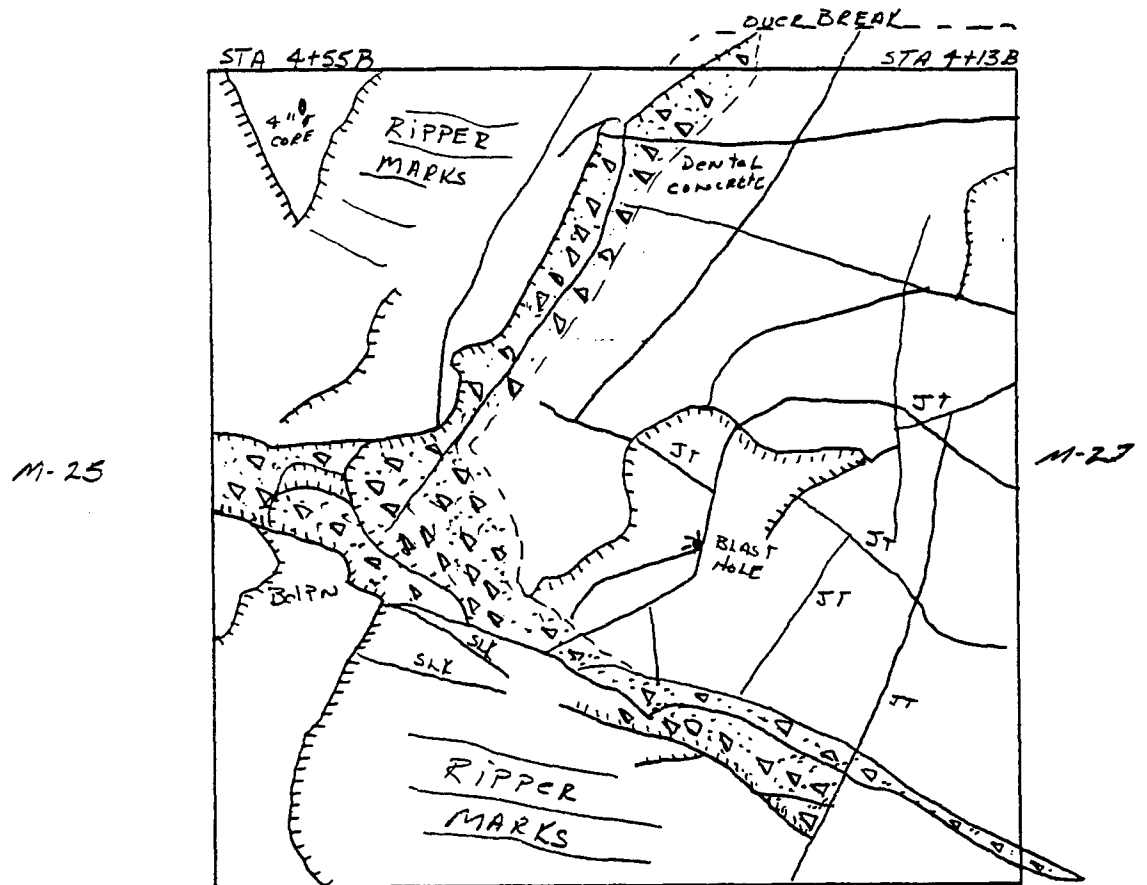
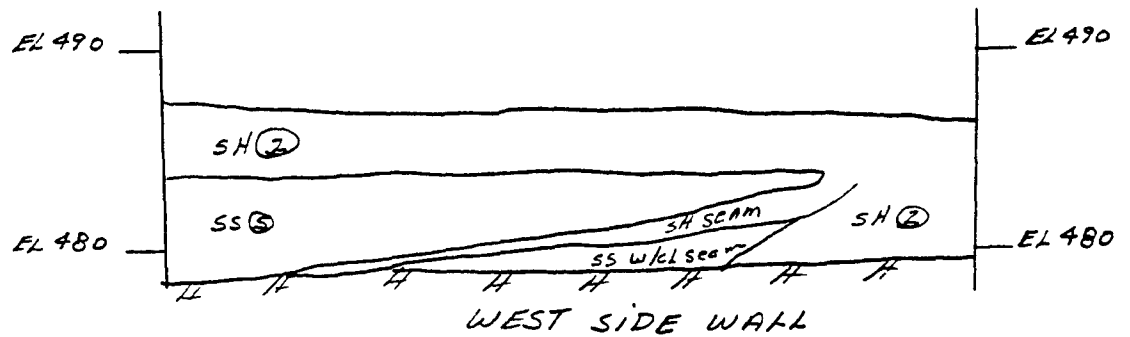




U. S. Army Corps of Engineers

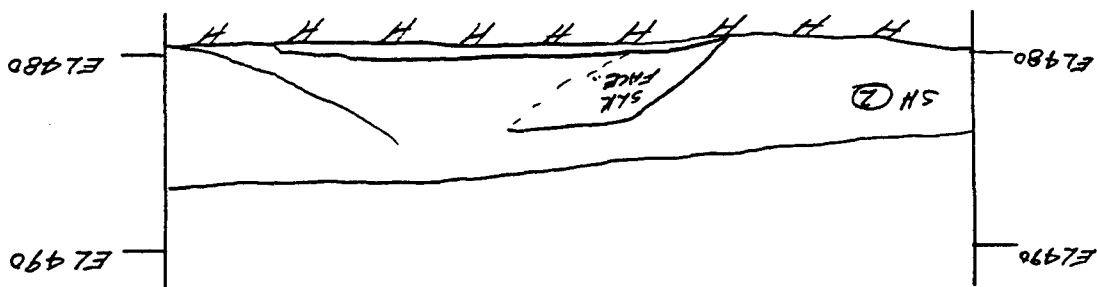
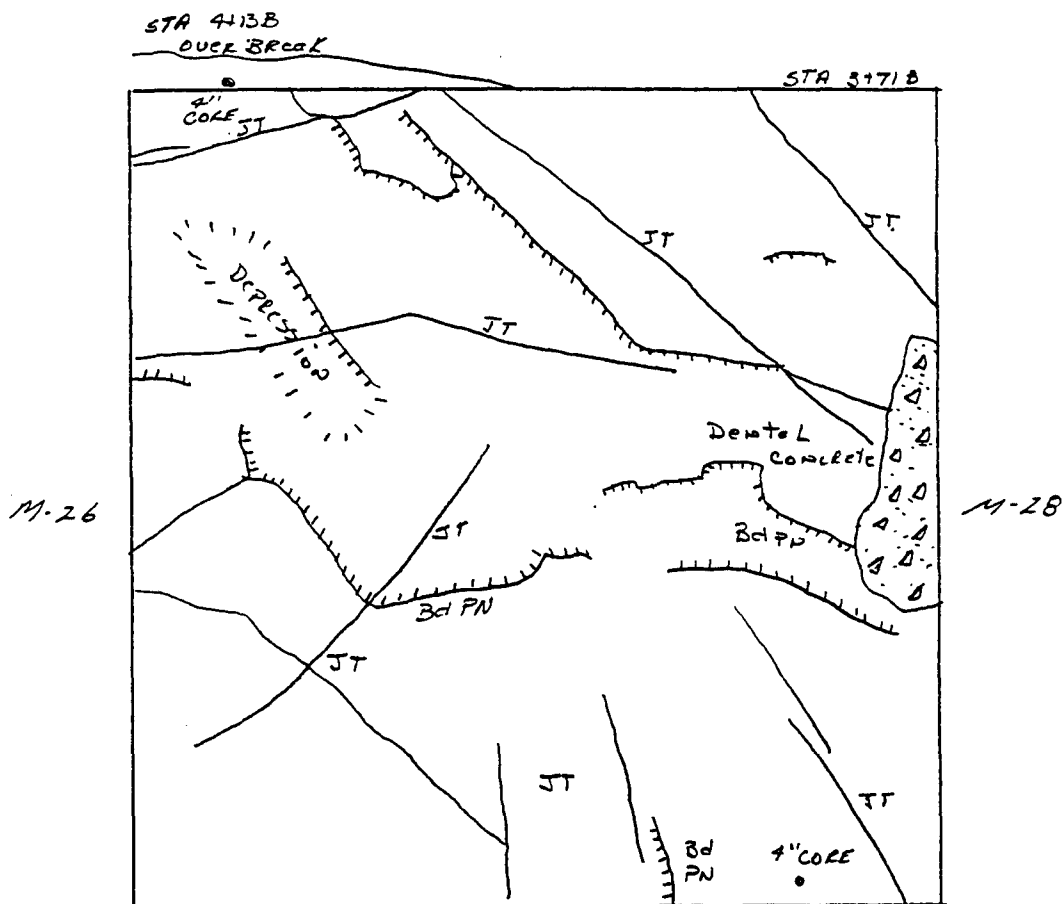
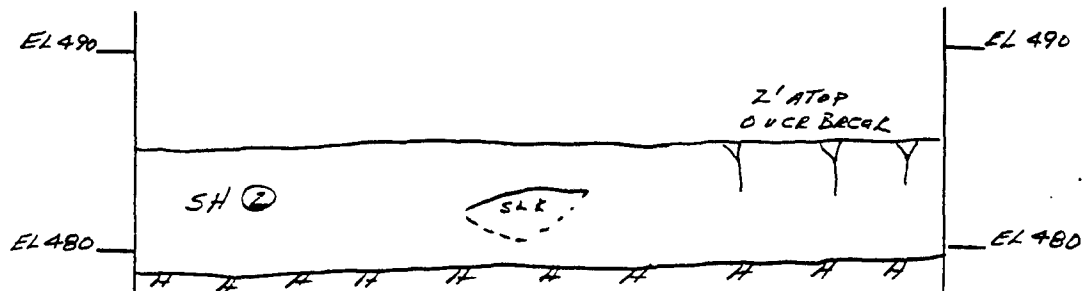
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 24





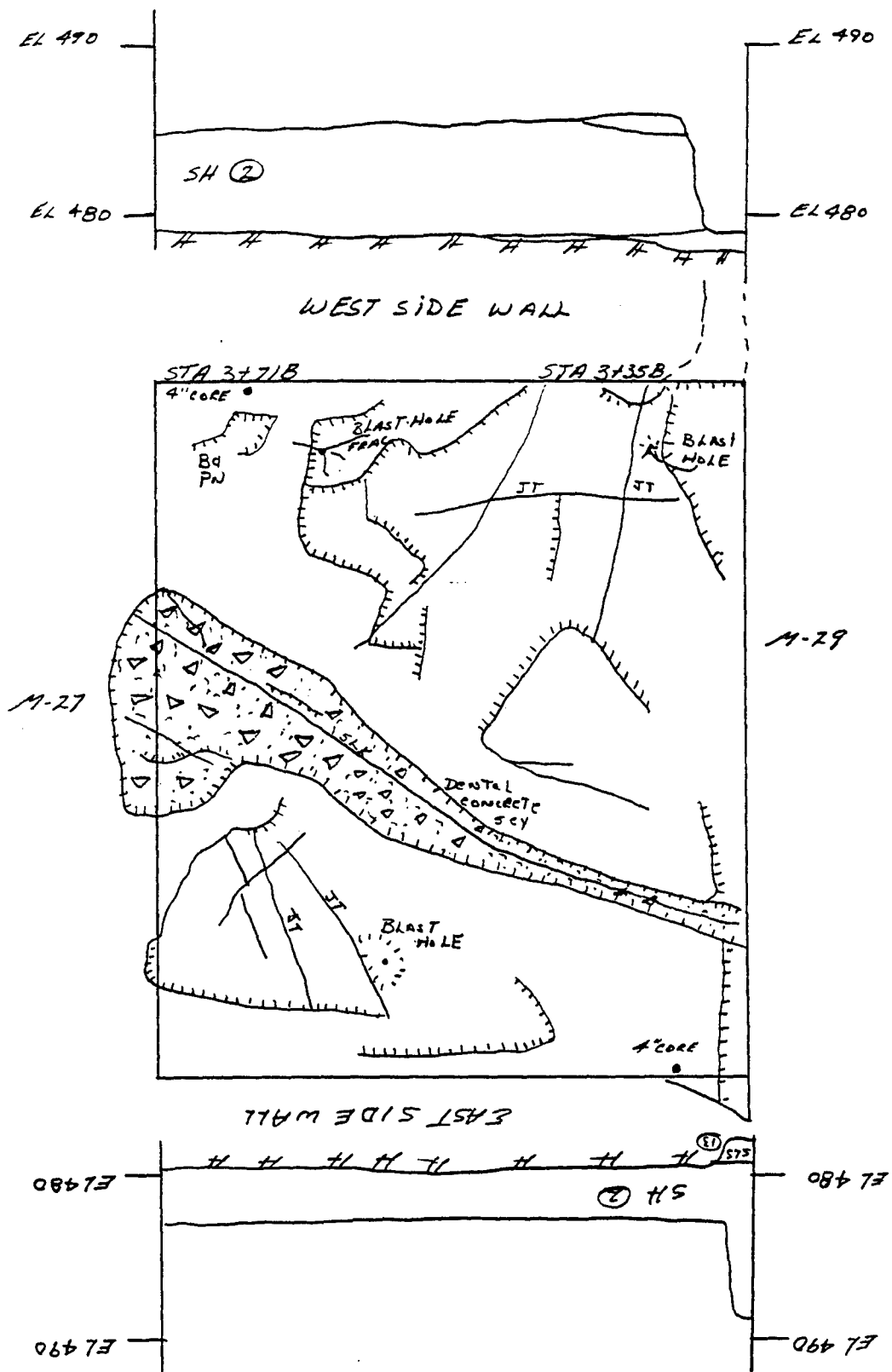
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 26



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 27

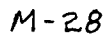


U.S. Army Corps of Engineers

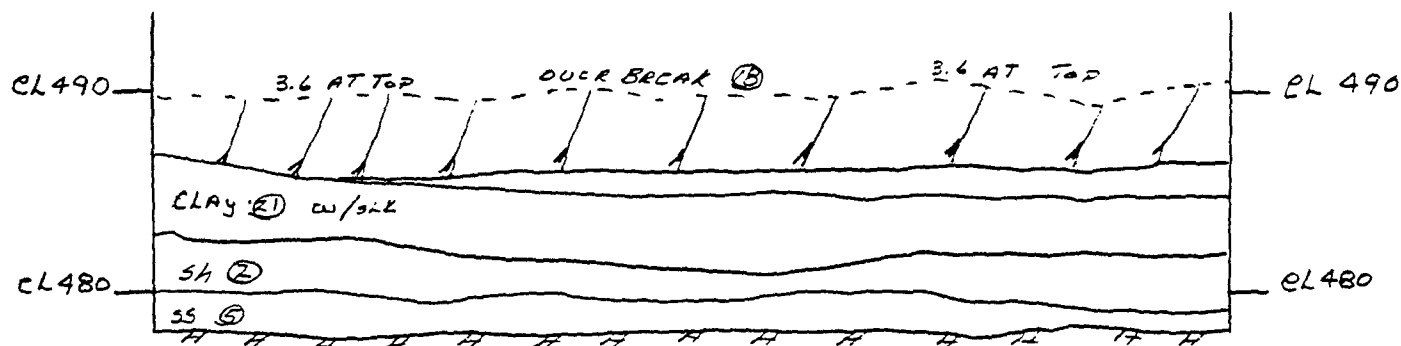
Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation drawing  
 Middle Wall Monolith 28



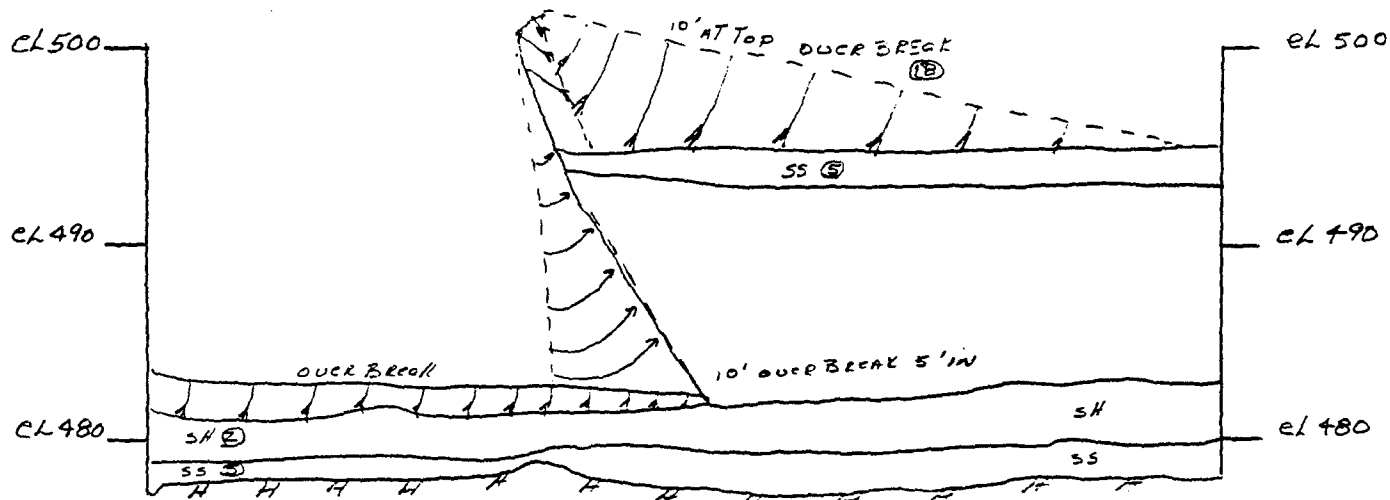
5/2 2+798



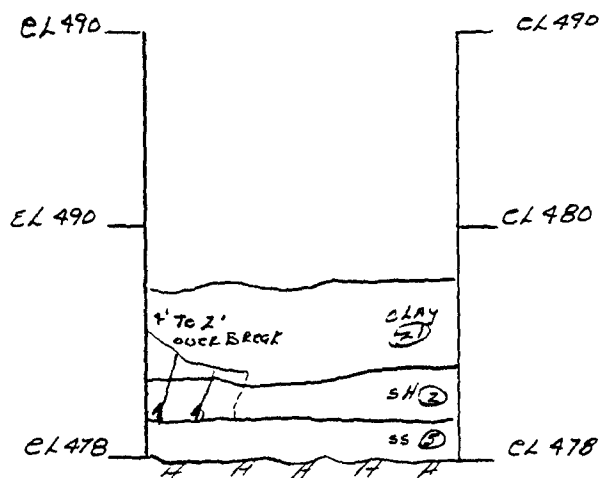
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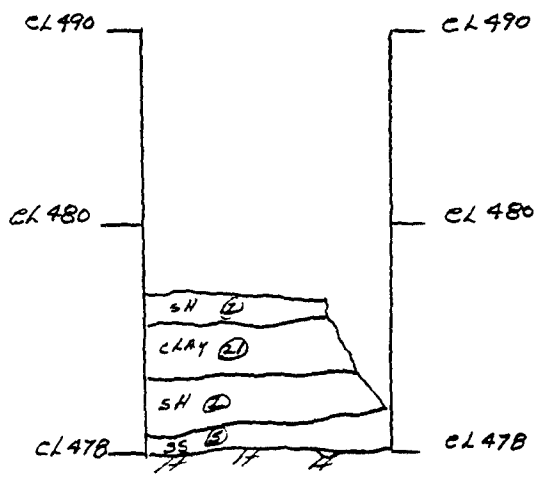
WEST WALL



EAST WALL



Offset M28/29

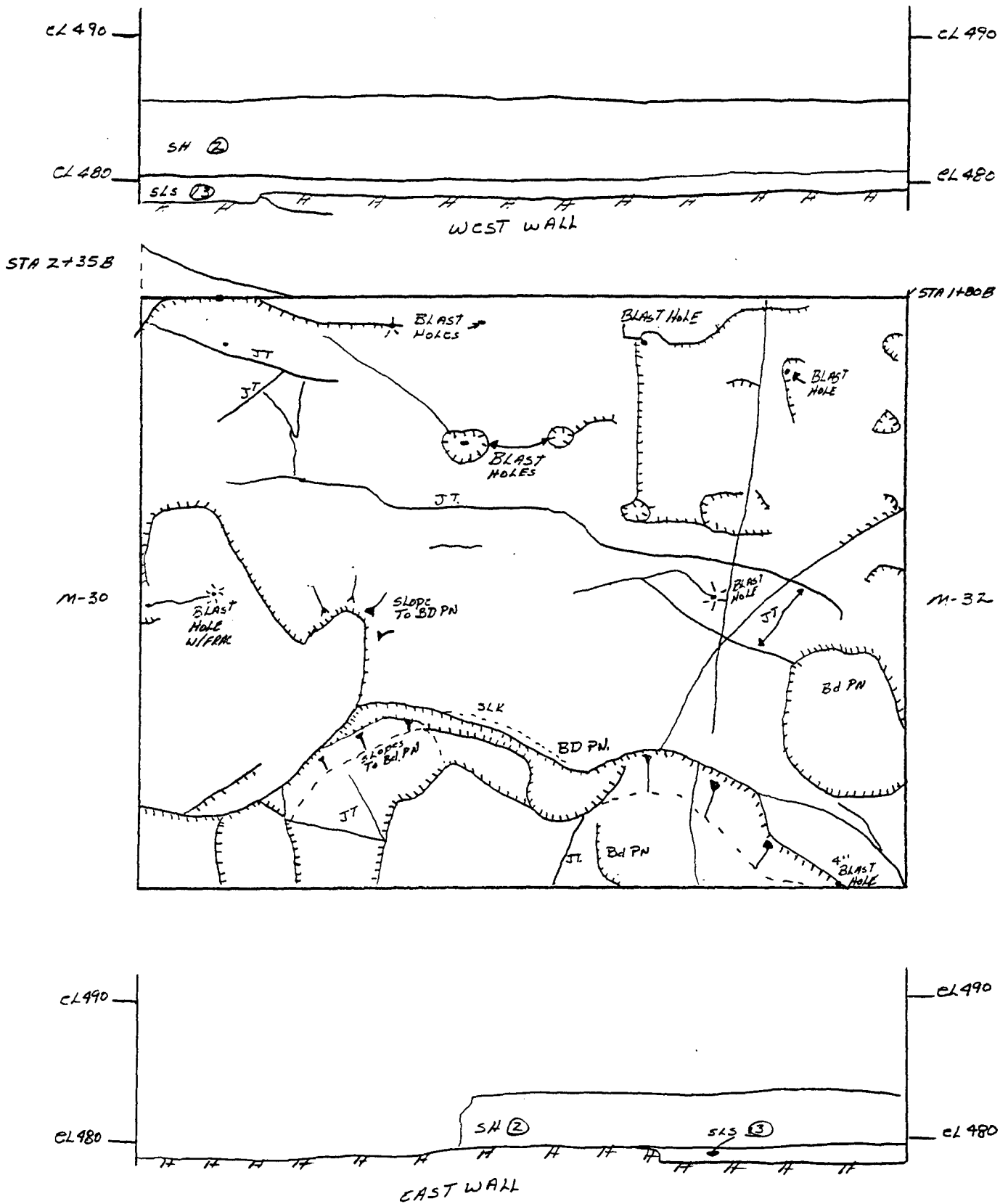


Offset M29/30

U.S. Army Corps of Engineers

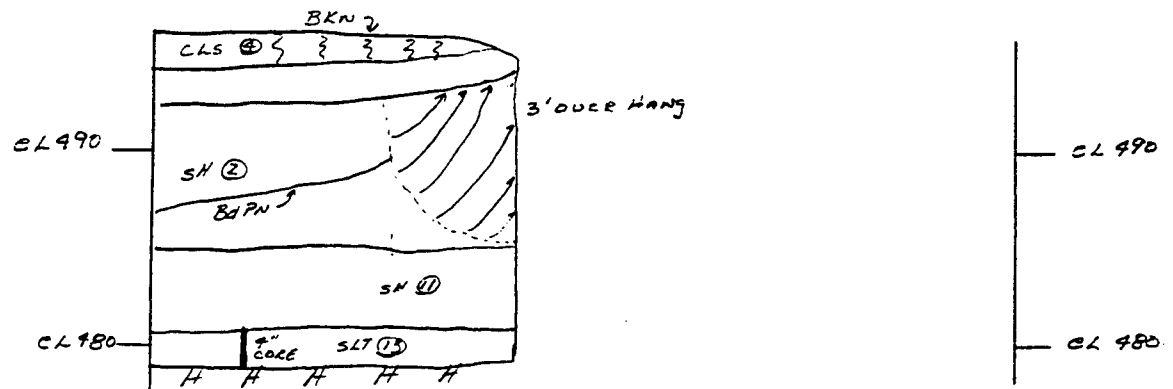
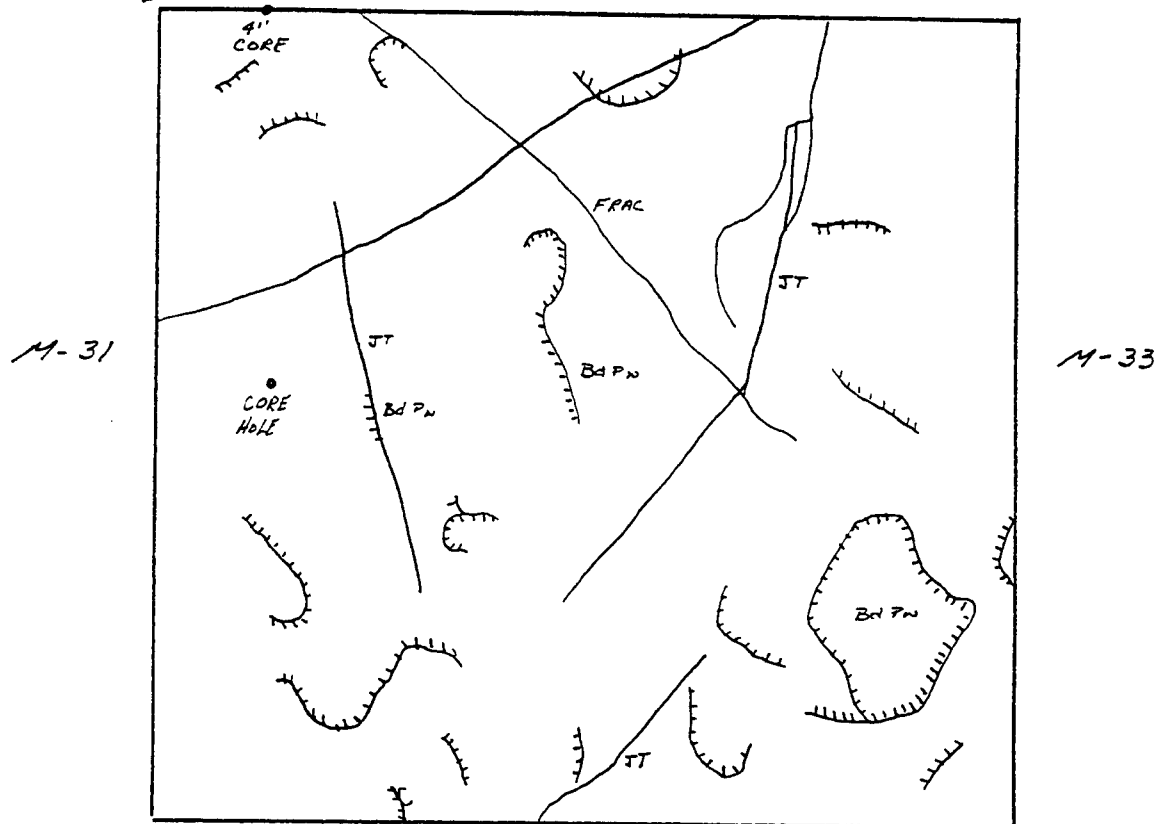
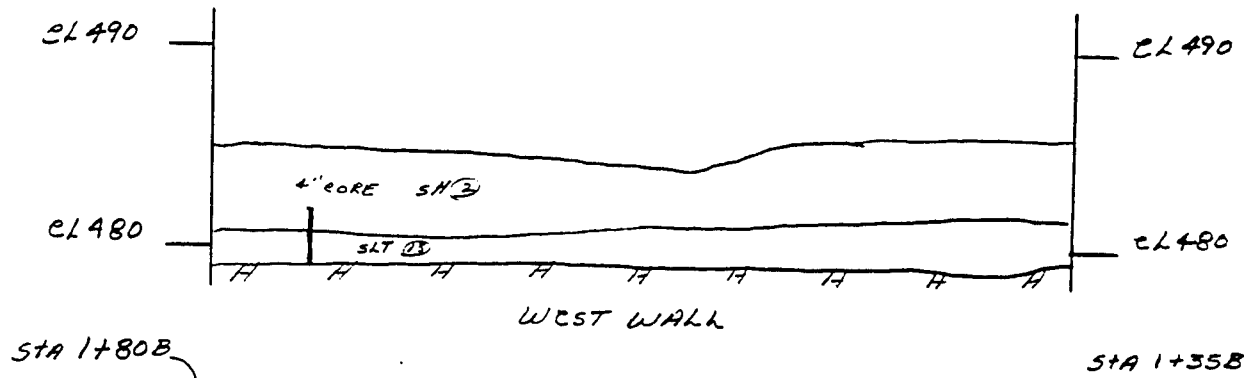
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 29





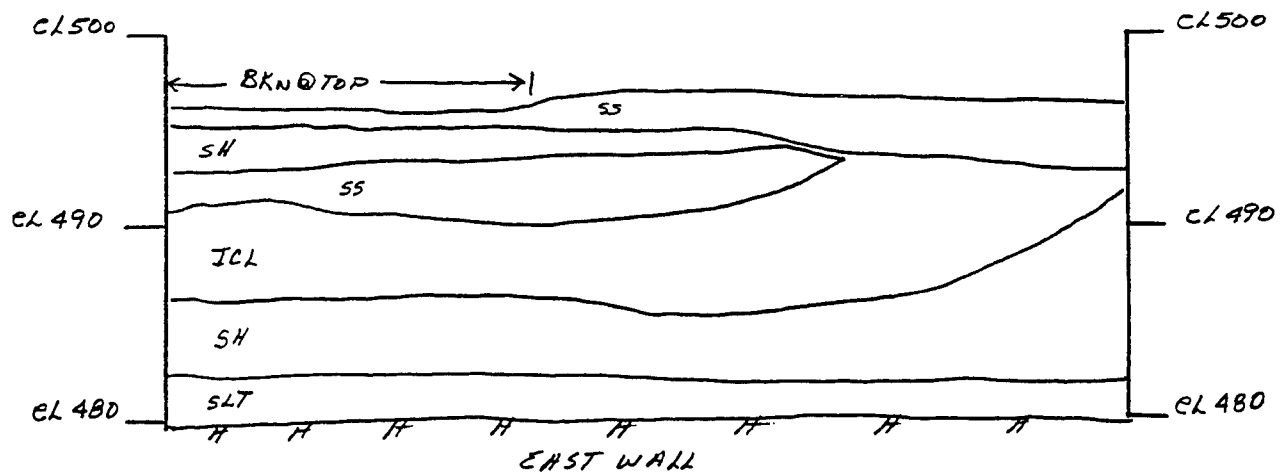
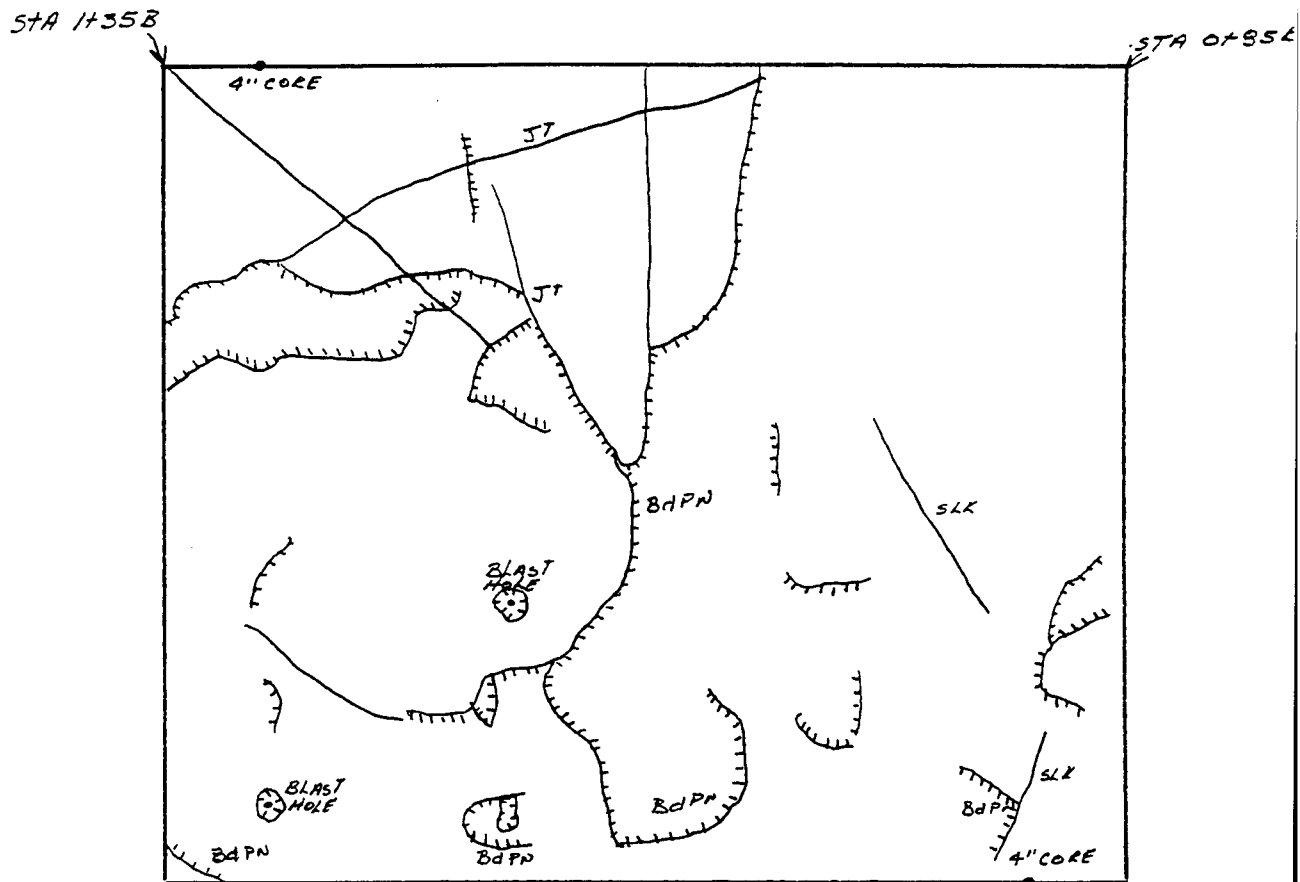
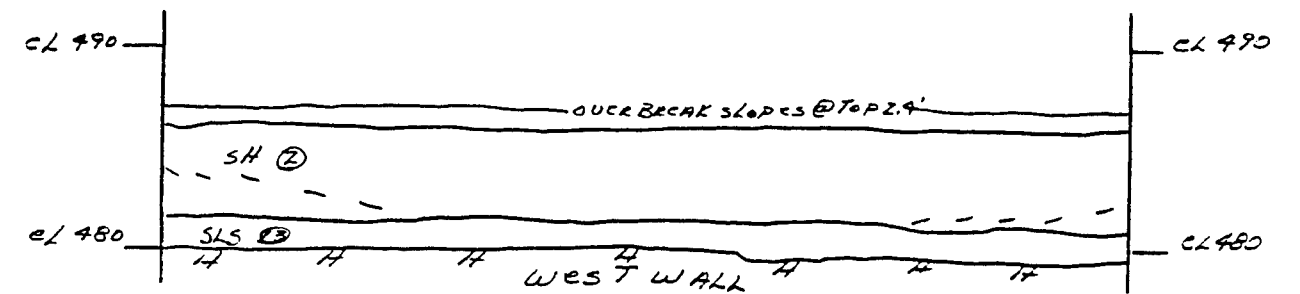
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 31



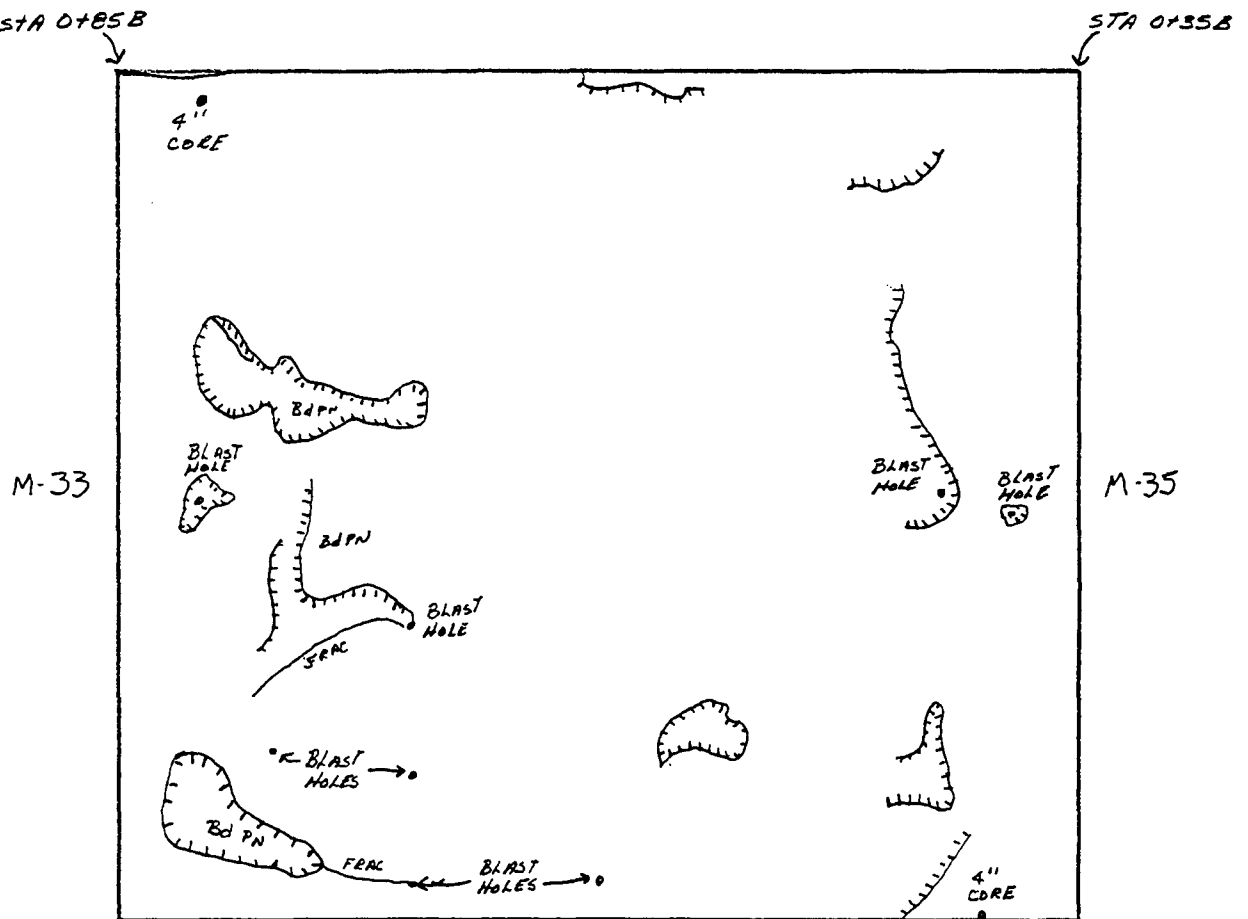
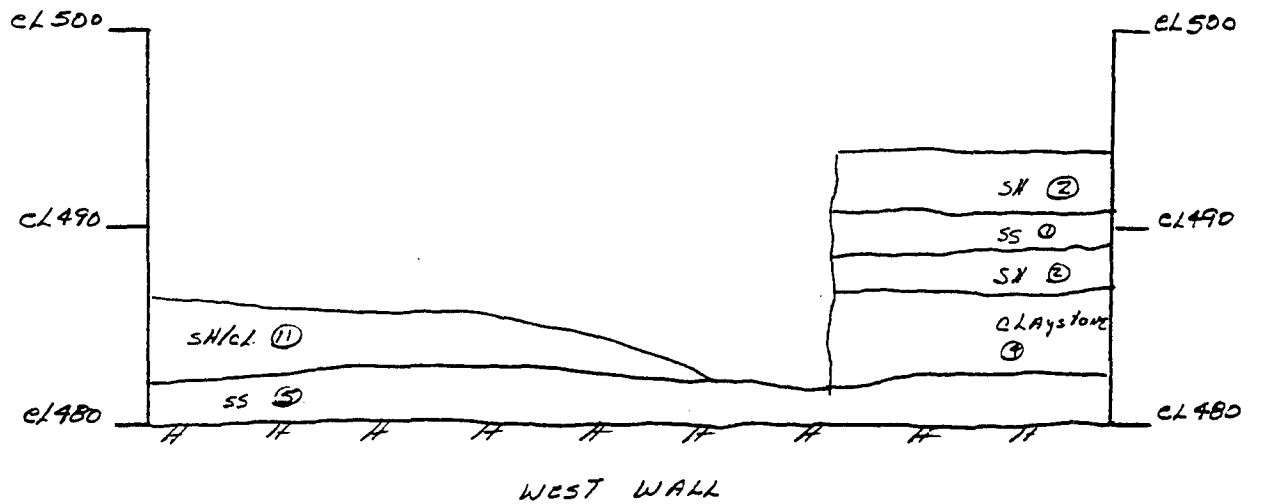
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 32



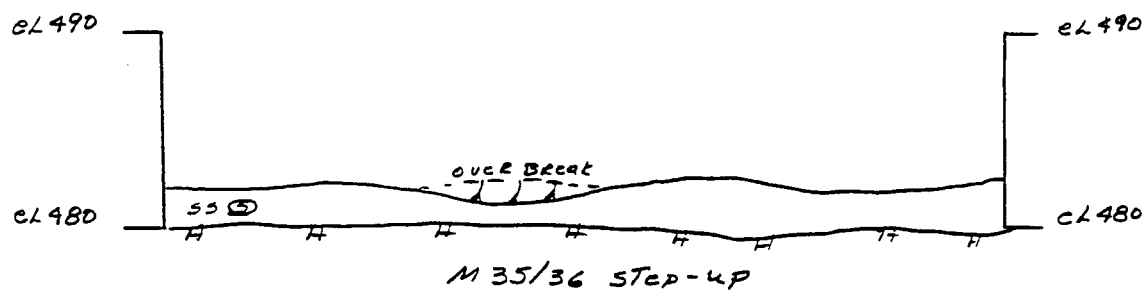
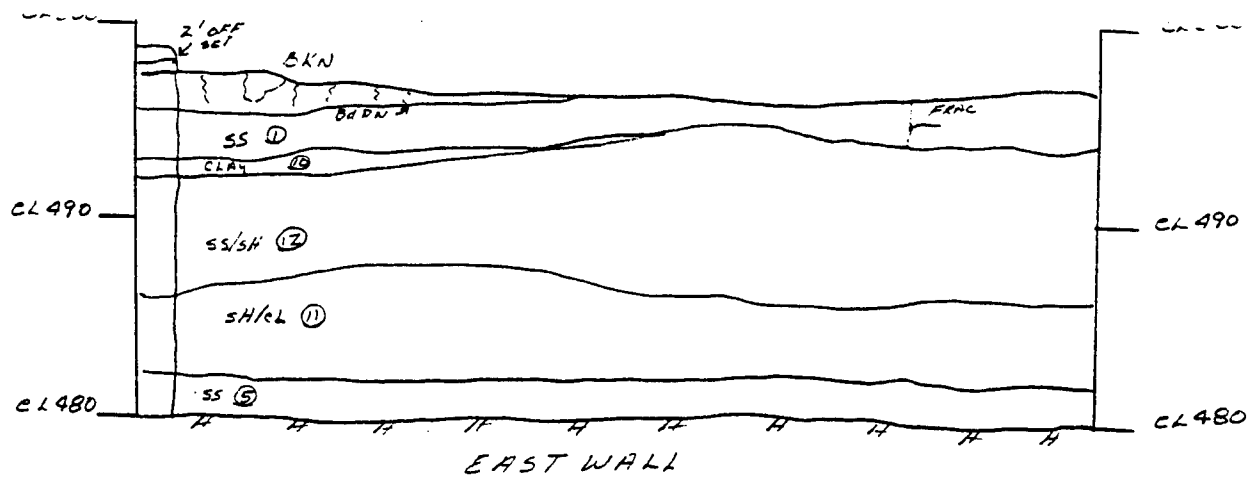
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 33

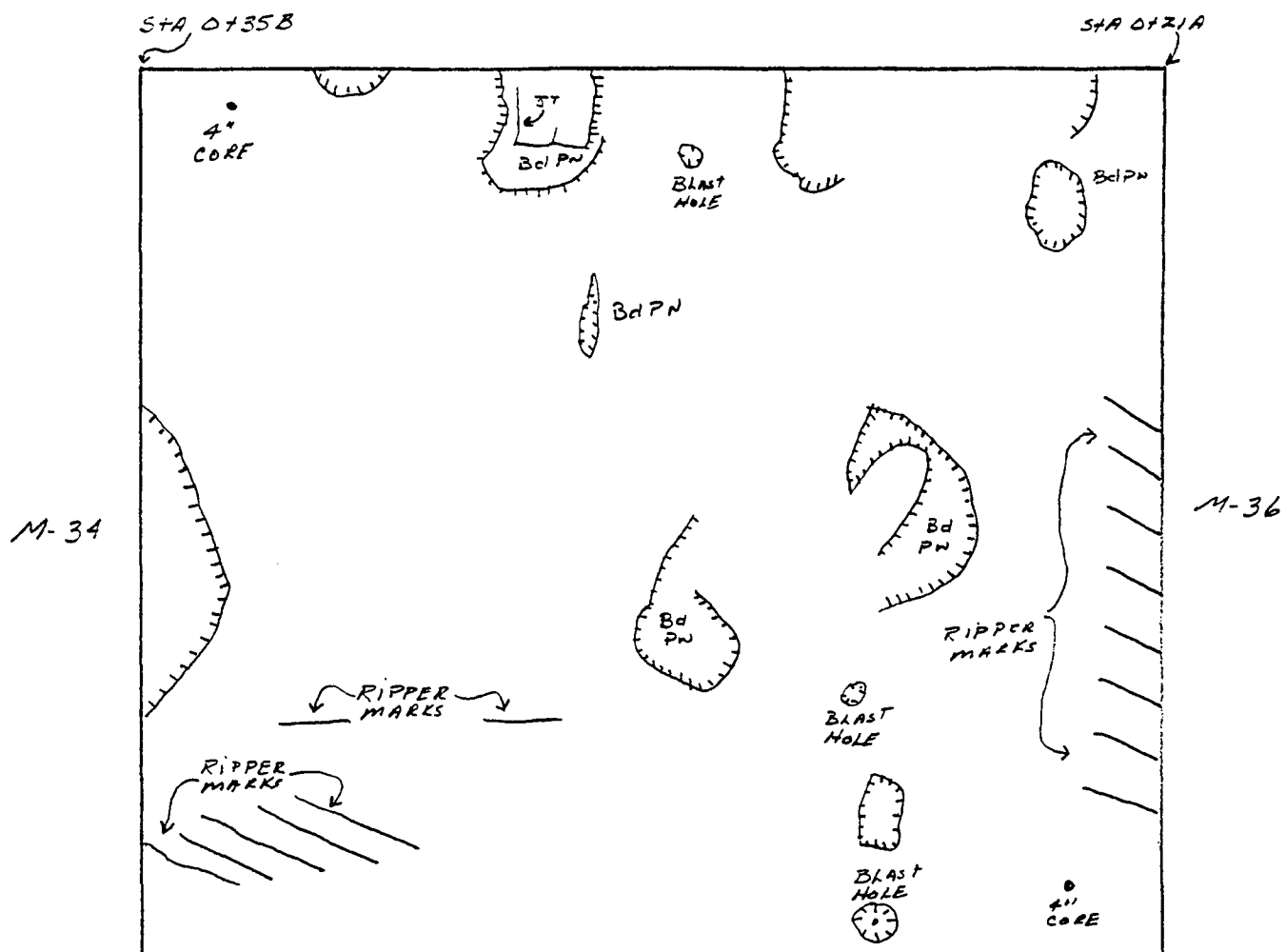


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 34

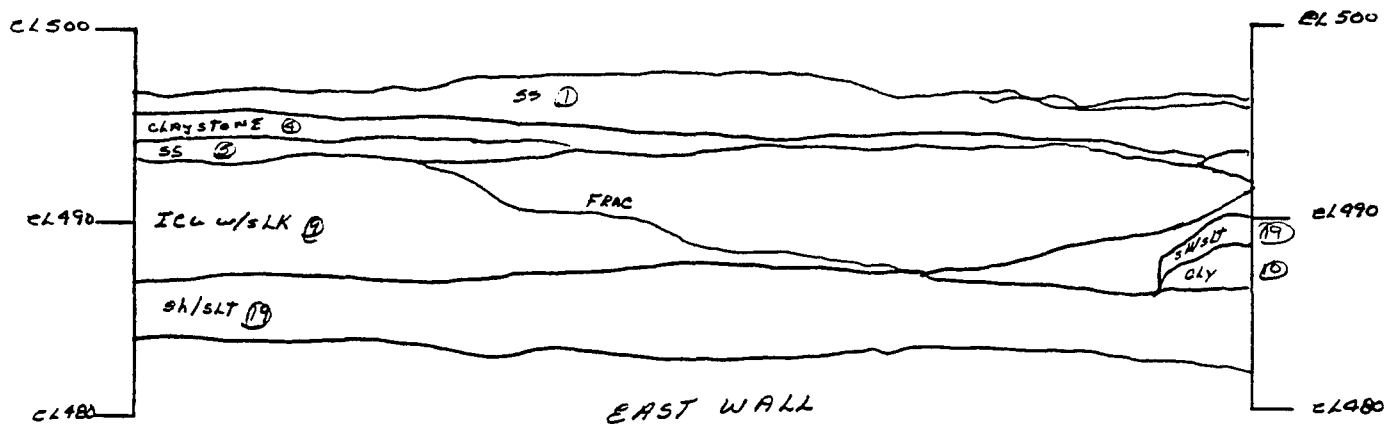
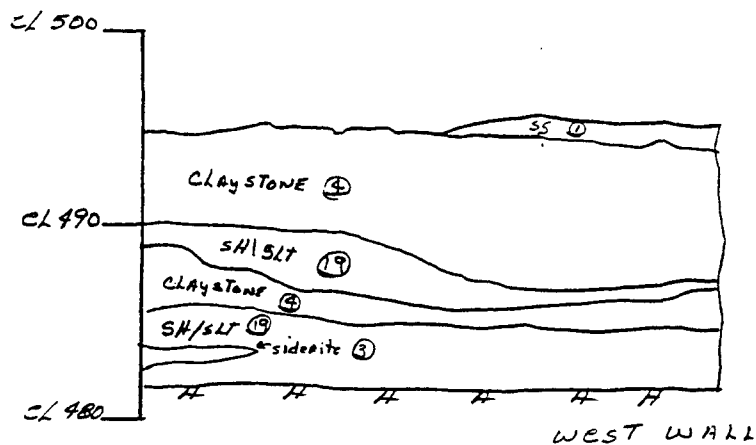






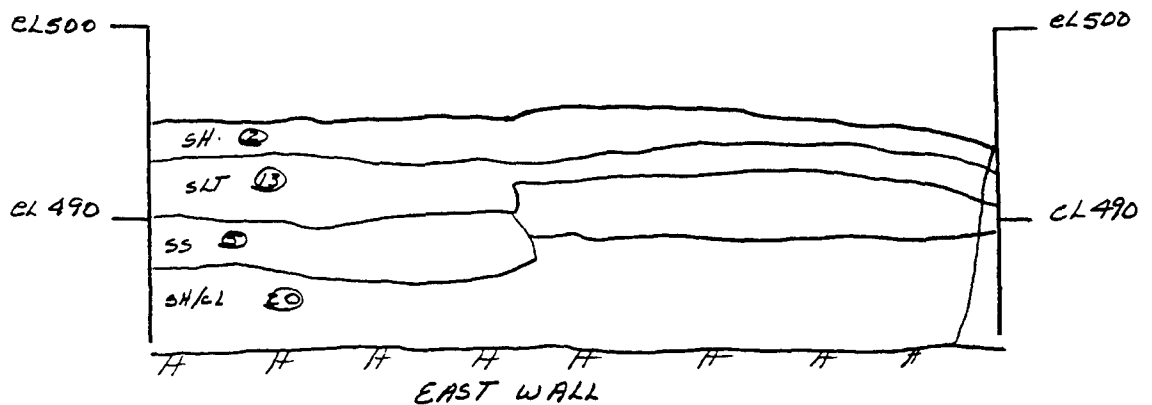
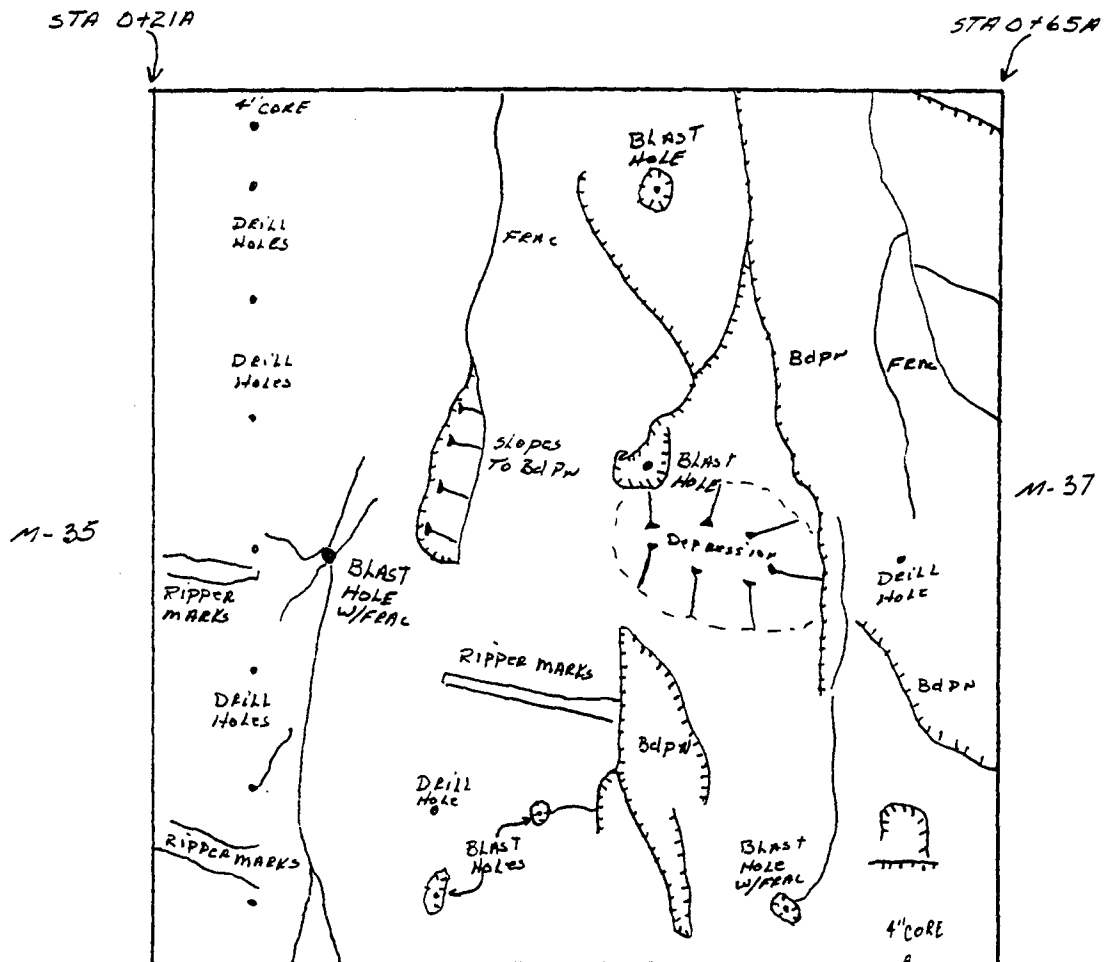
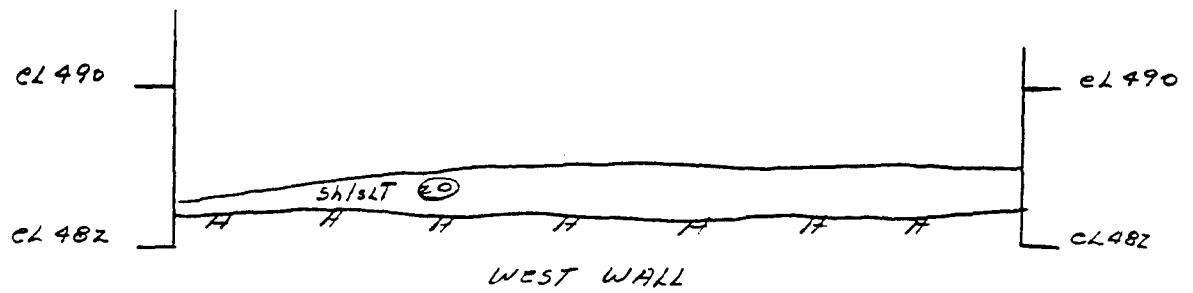
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 35



U.S. Army Corps of Engineers

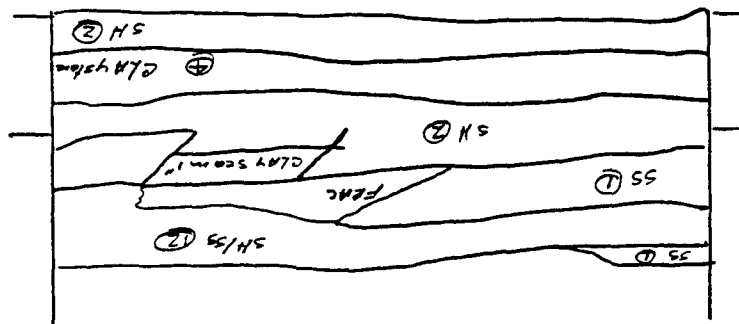
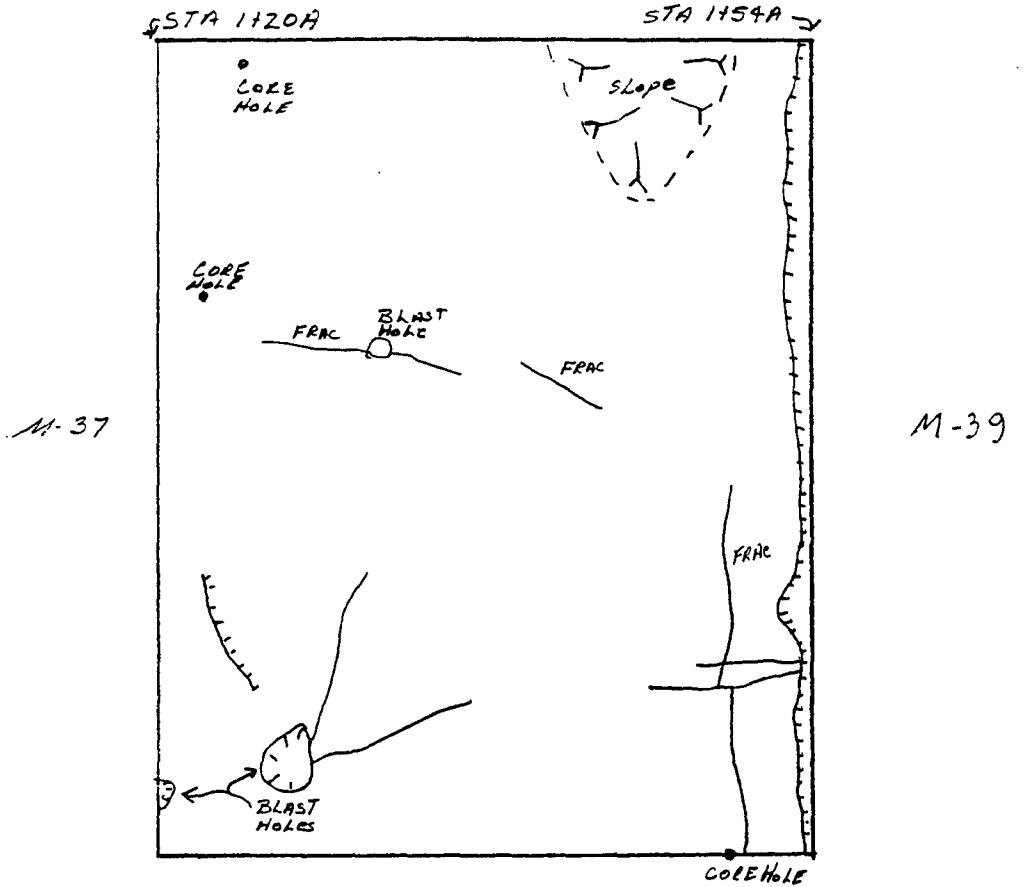
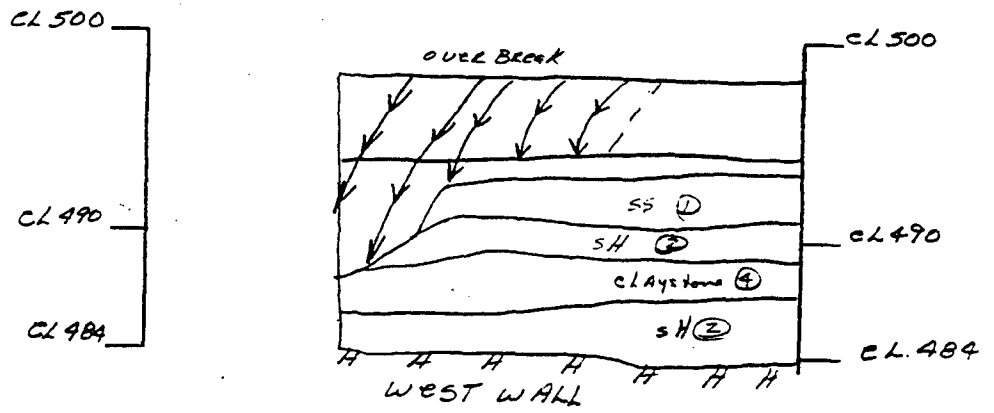
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 35



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 36

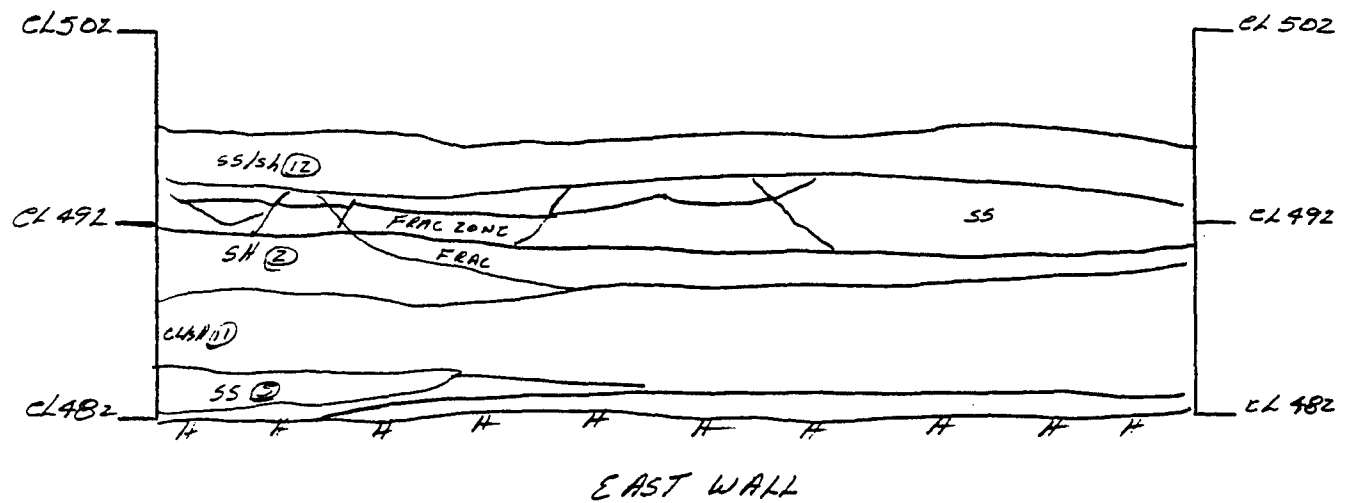
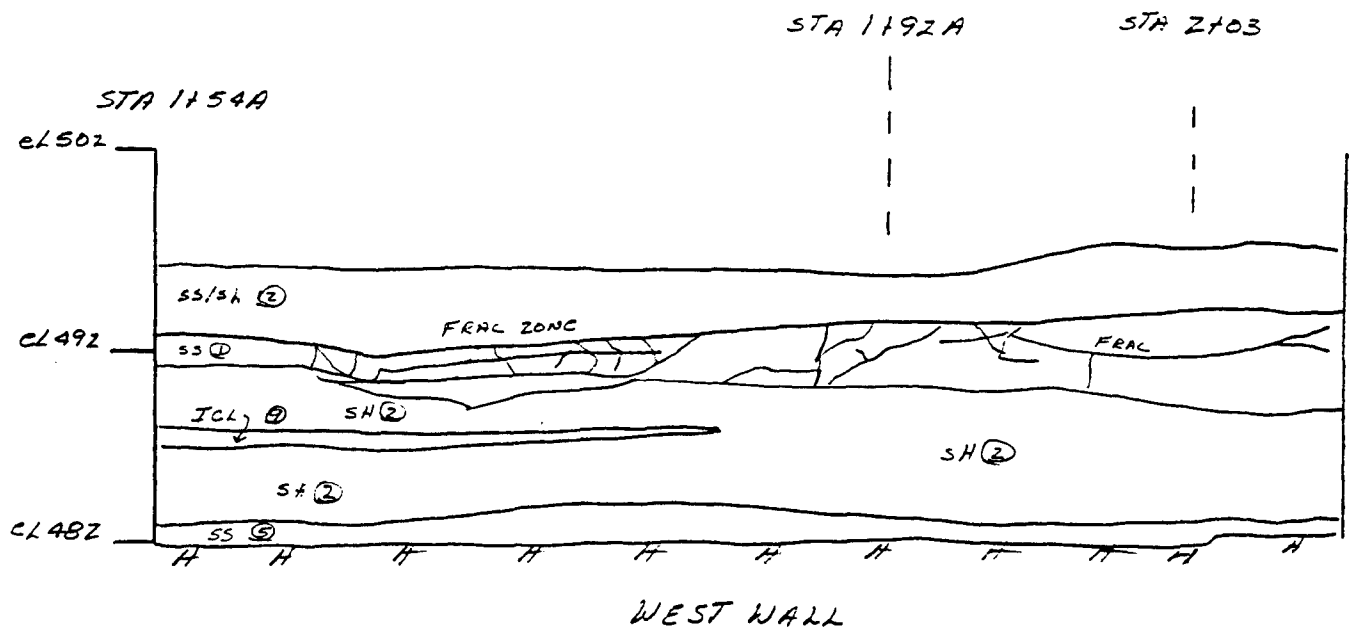




U.S. Army Corps of Engineers

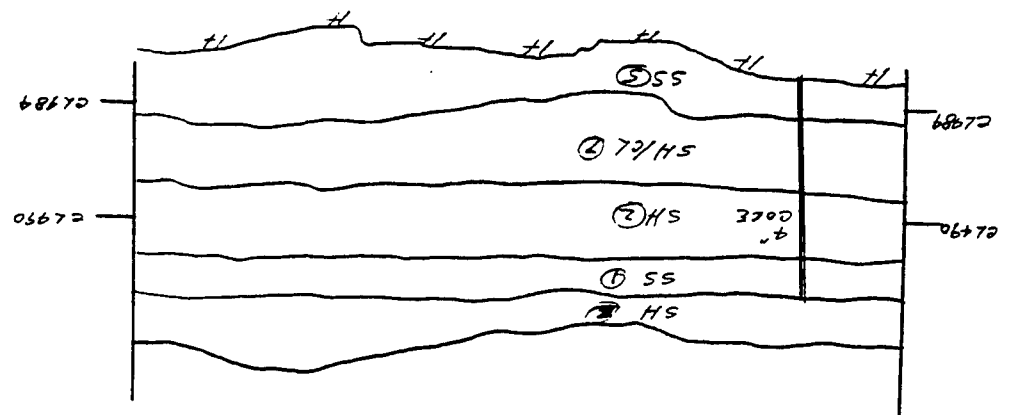
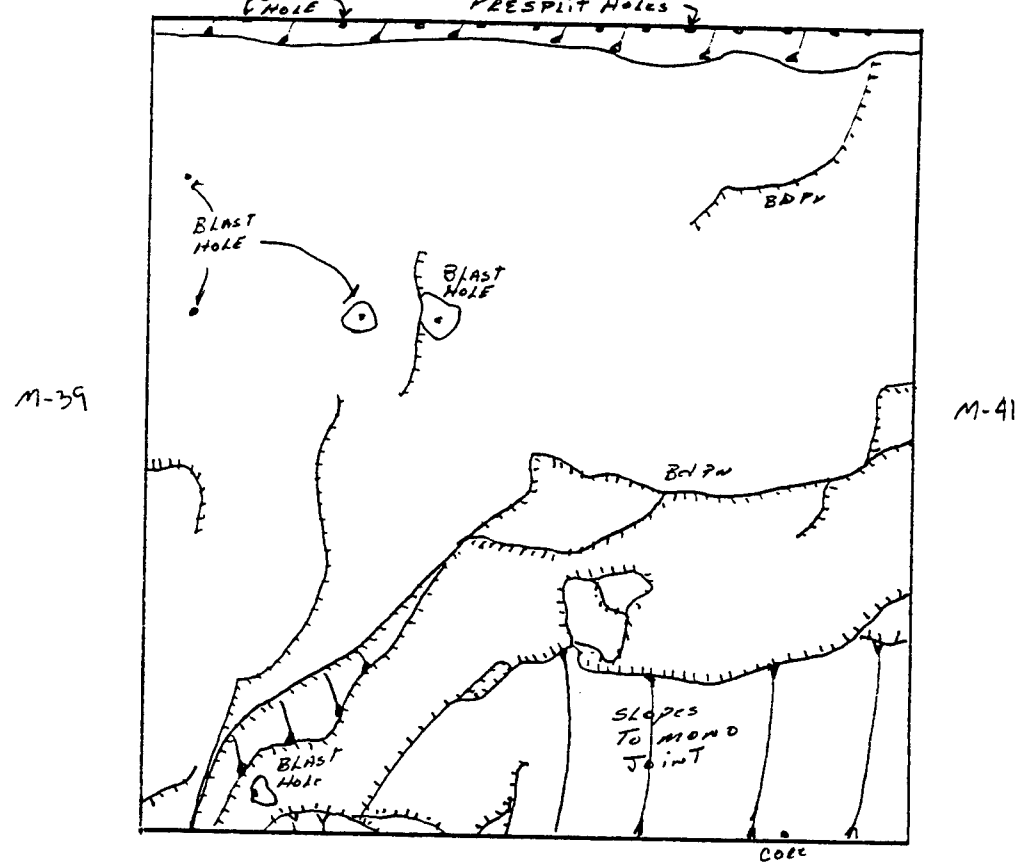
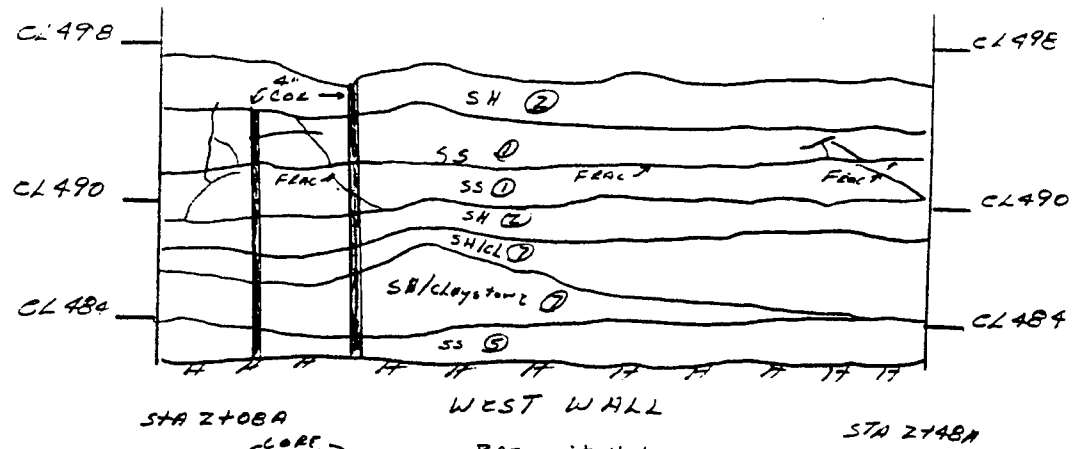
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 38





U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 39

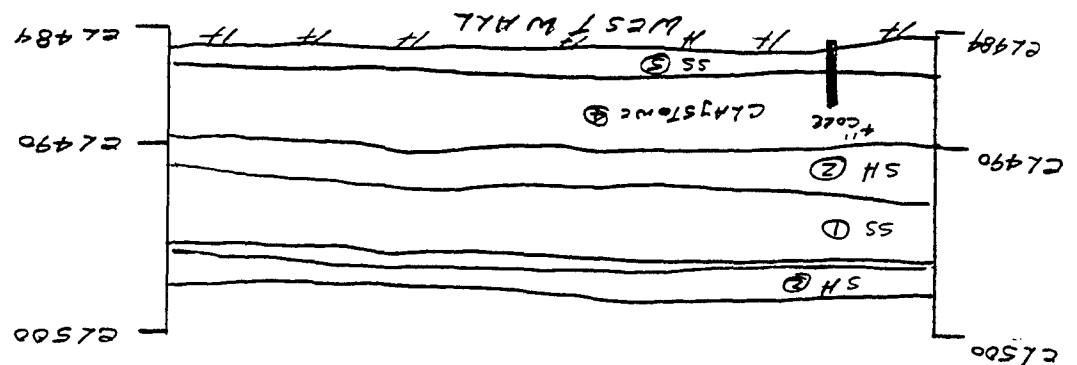
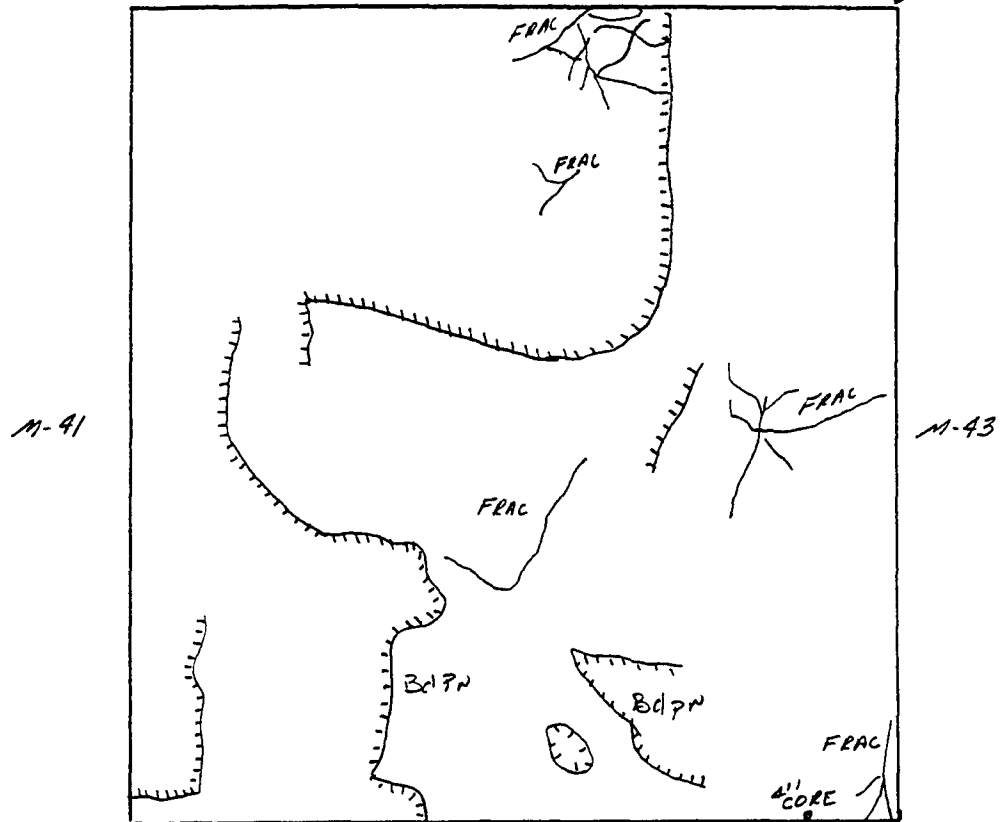
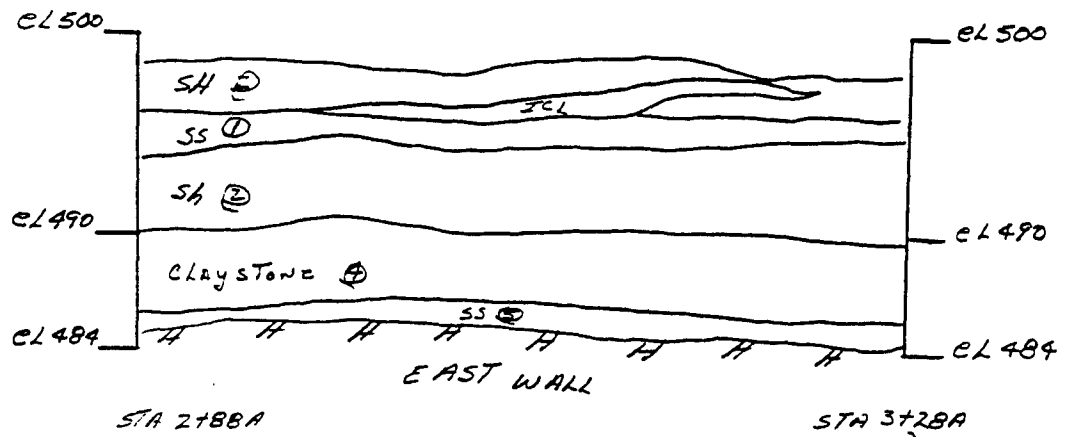


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 40

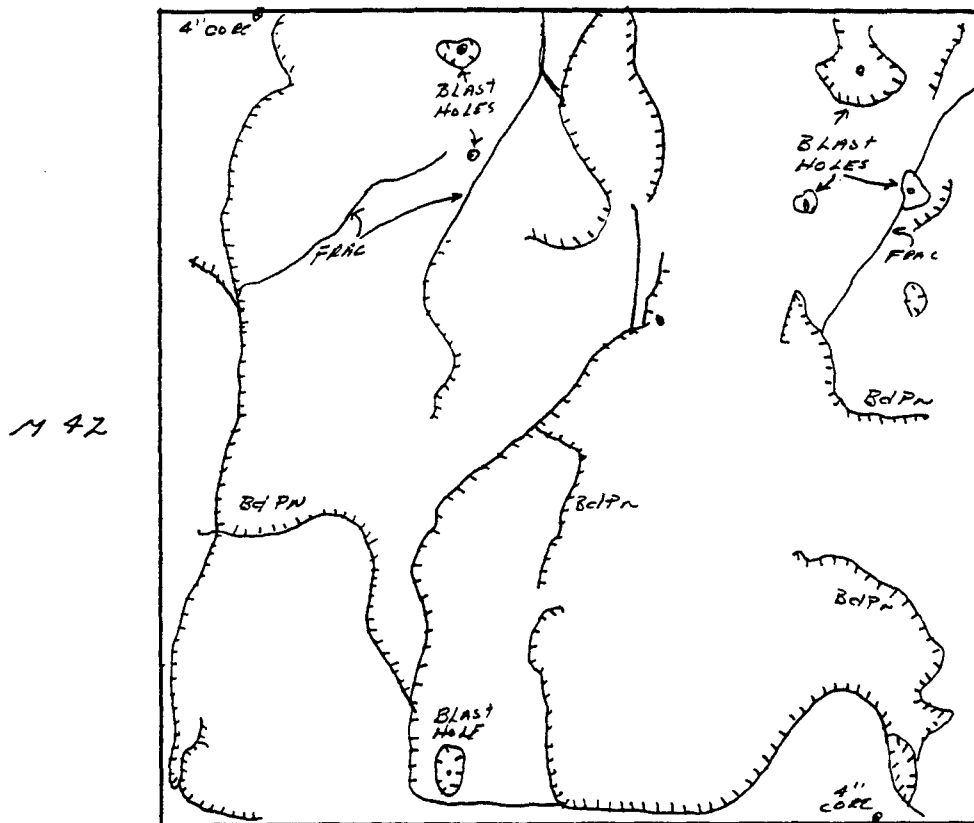
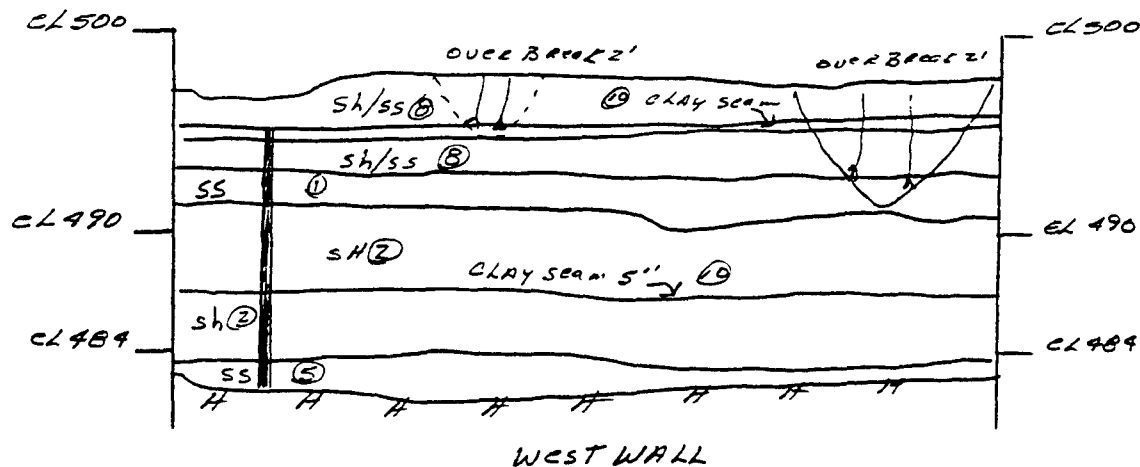






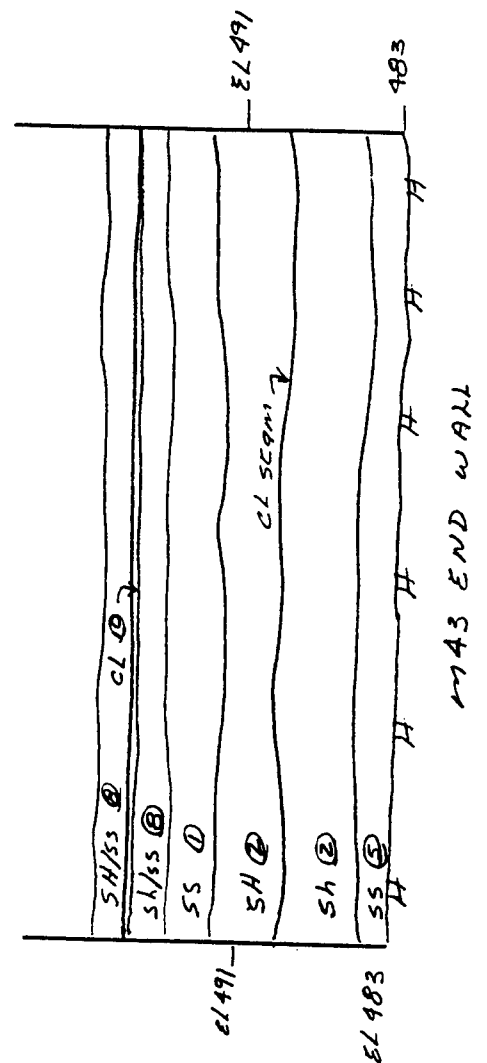
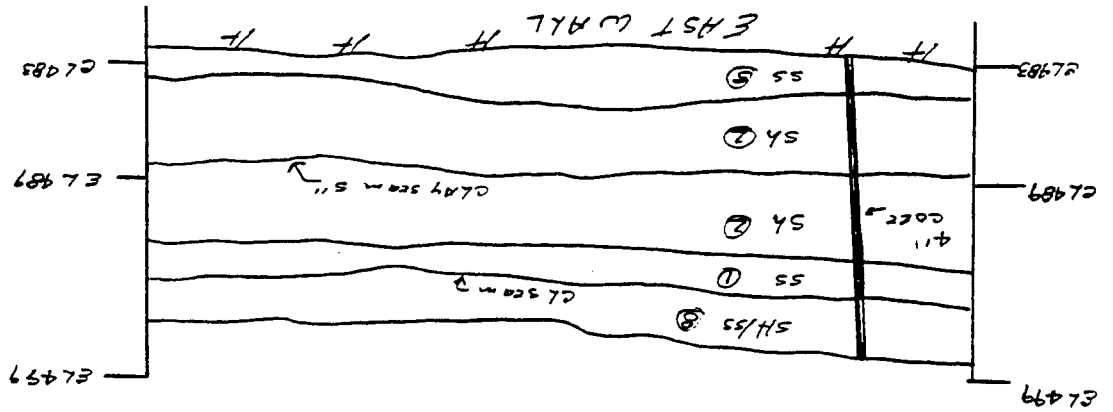
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Wall Monolith 42



U.S. Army Corps of Engineers

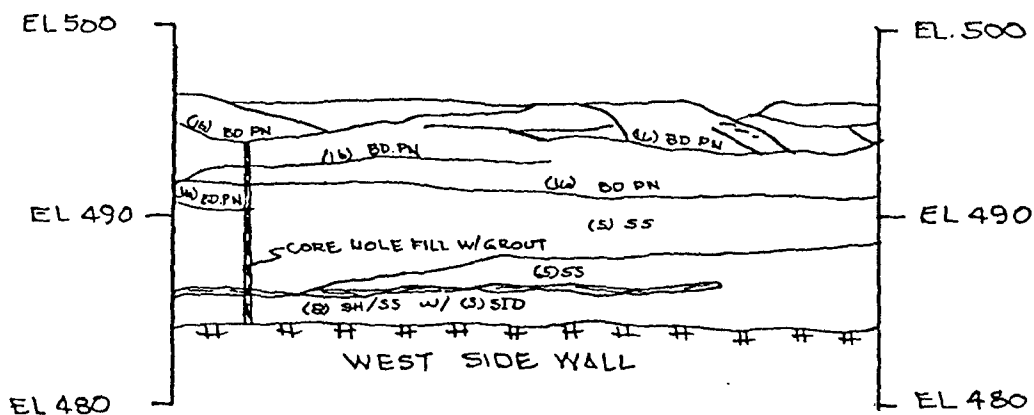
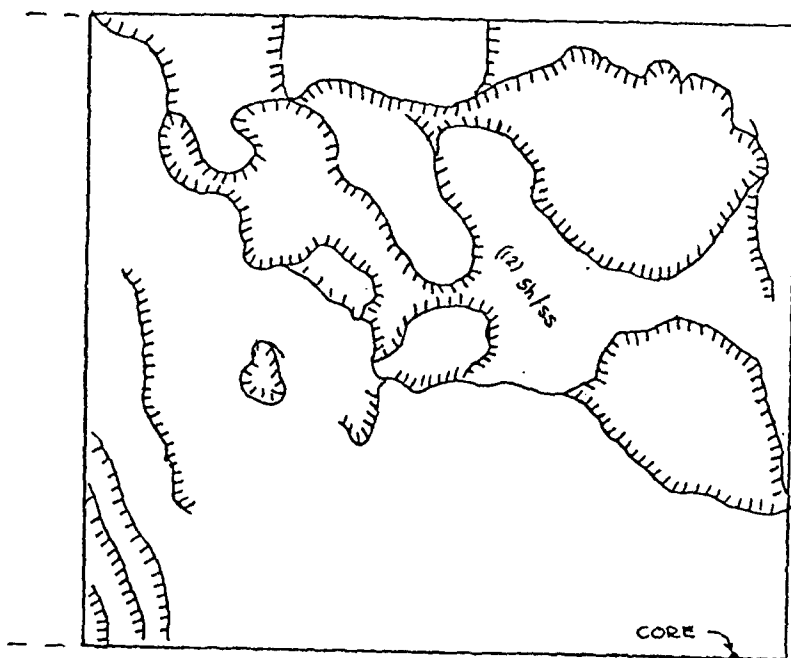
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 43



U.S. Army Corps of Engineers

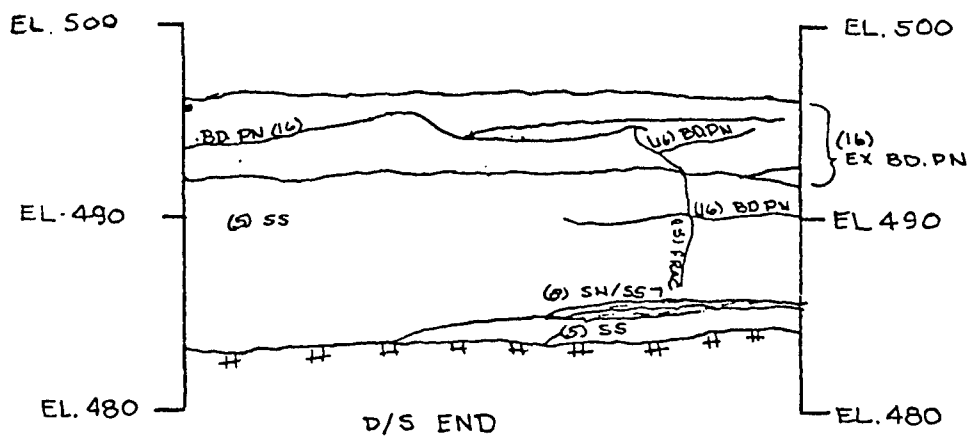
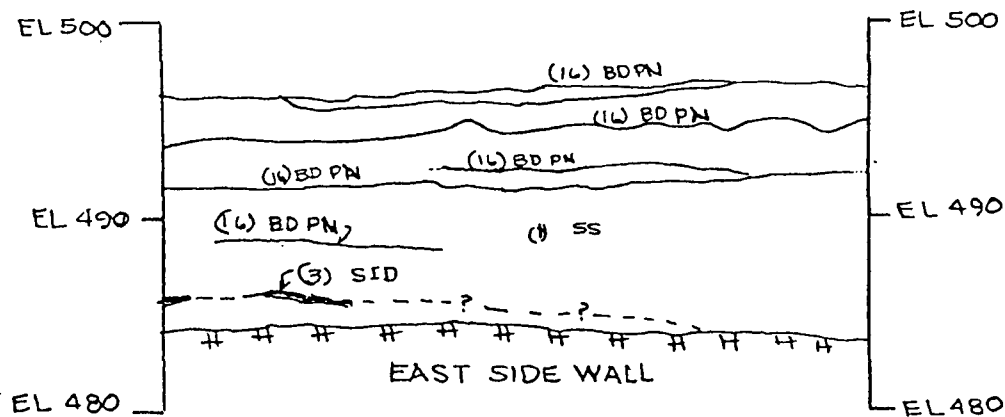
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Wall Monolith 43

L-2



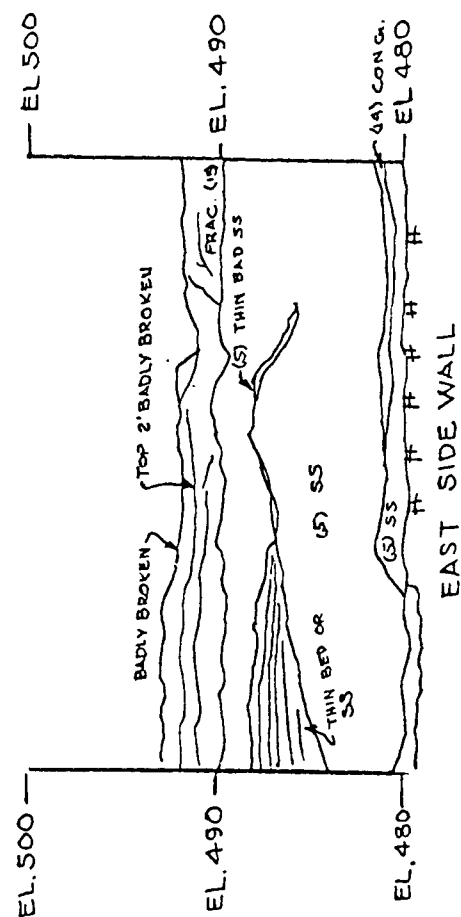
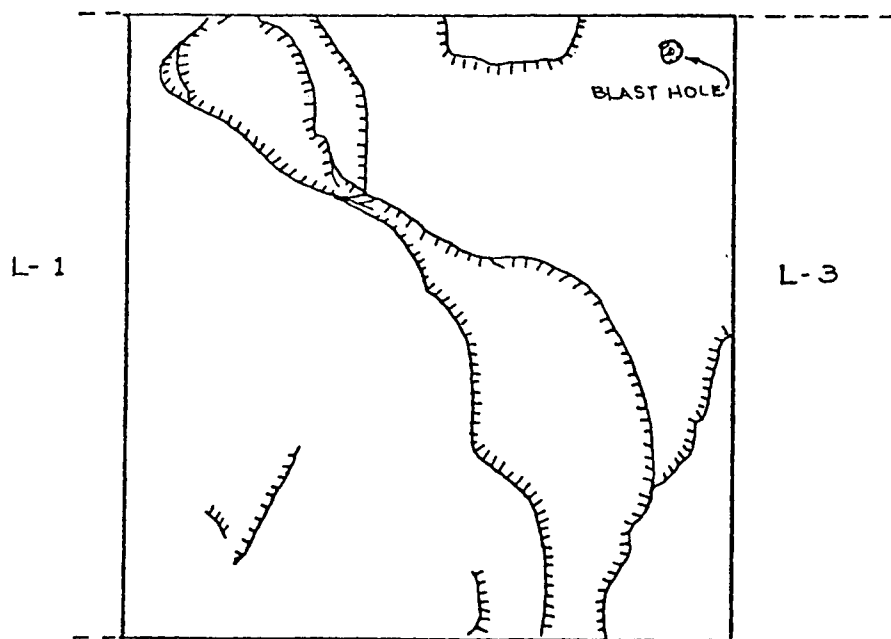
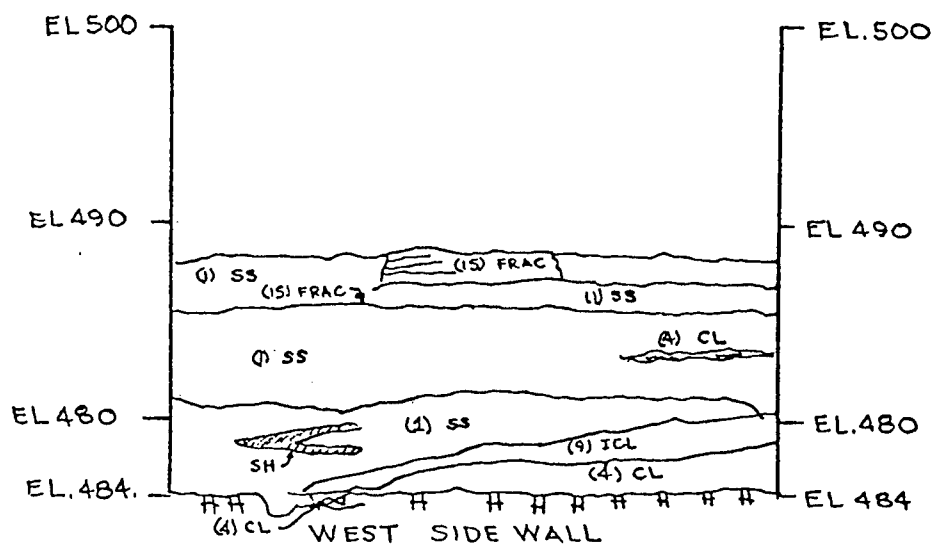
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 1



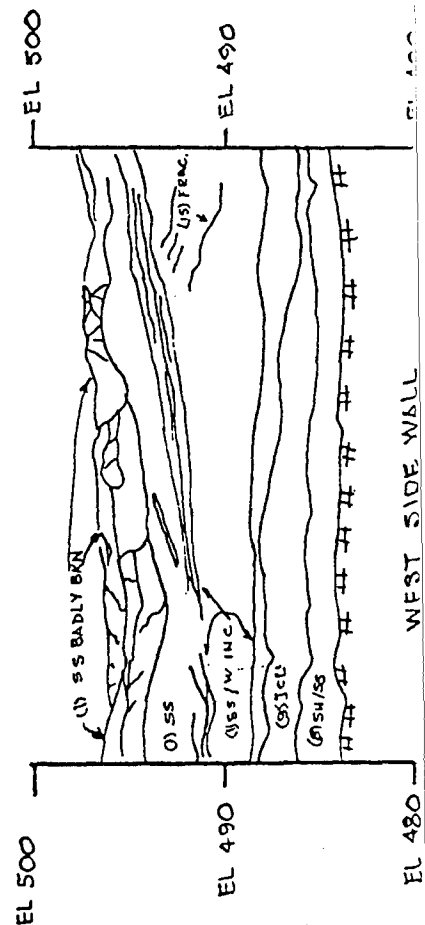
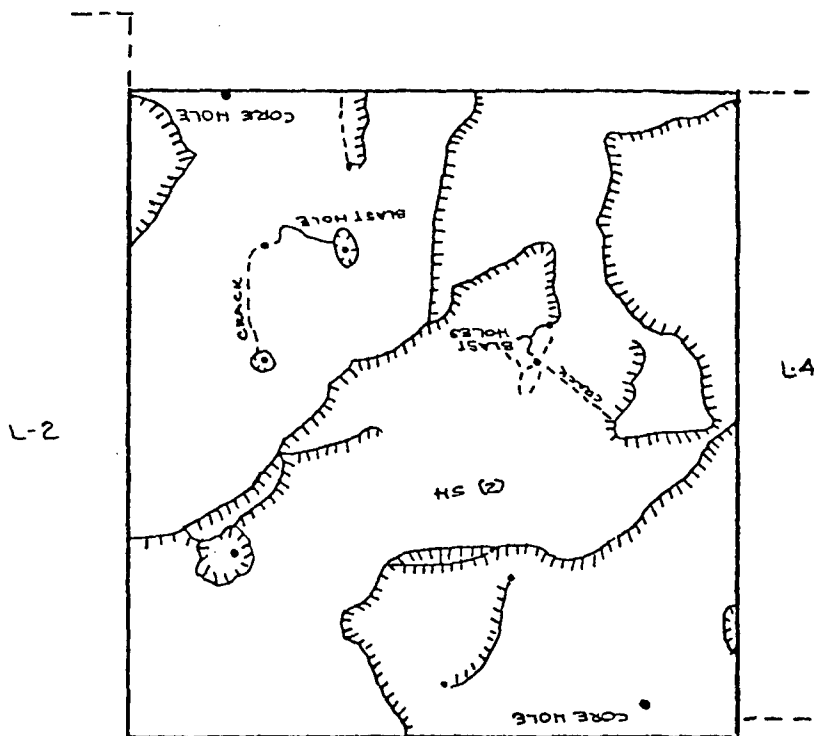
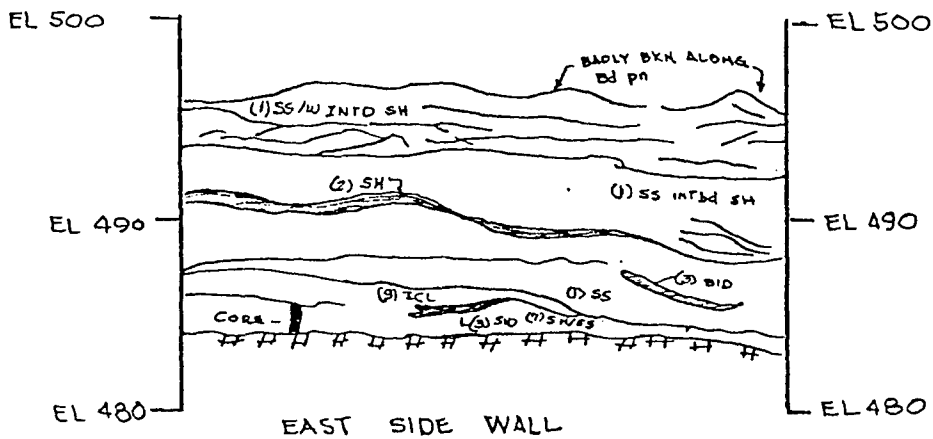
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 1



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 2

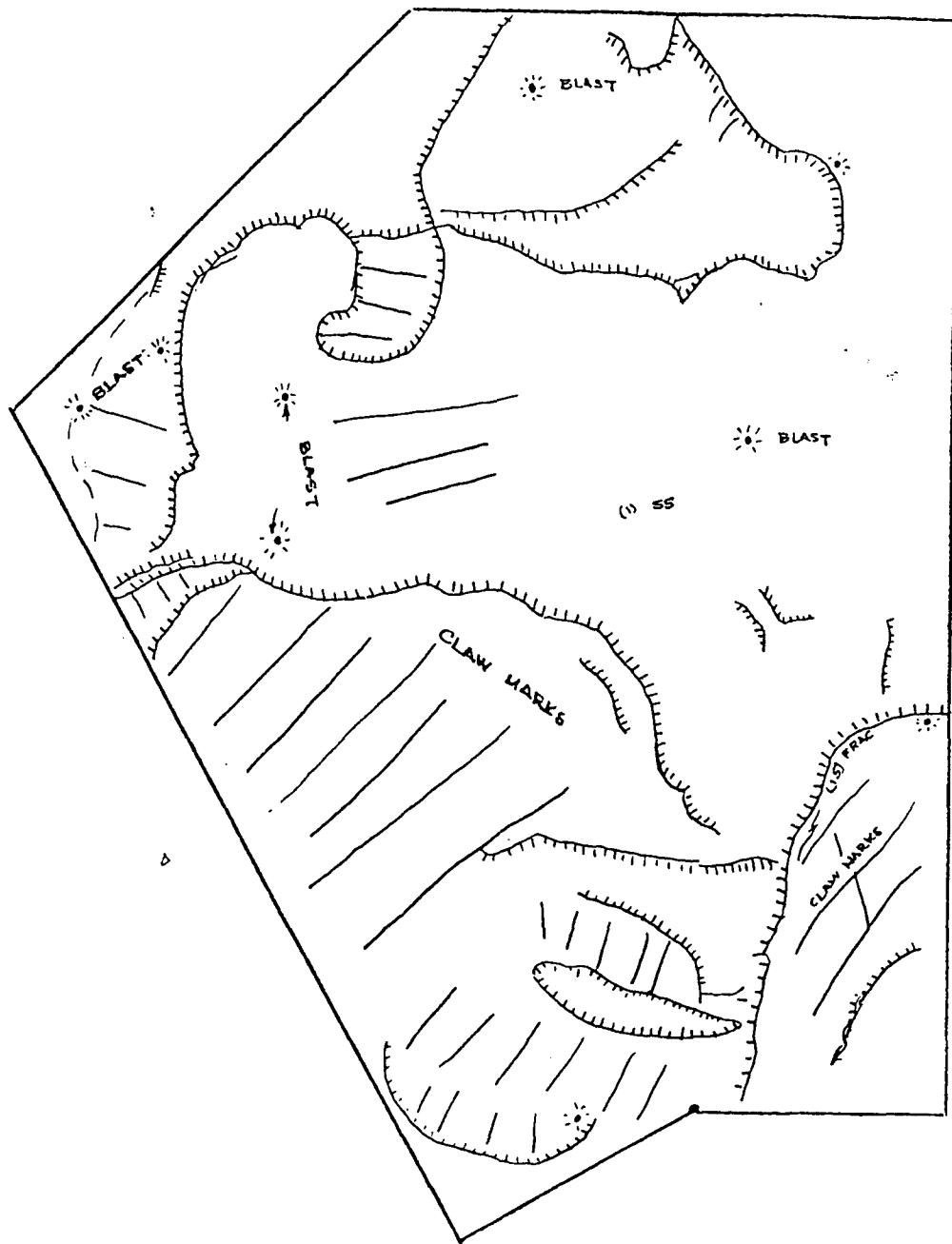


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 3

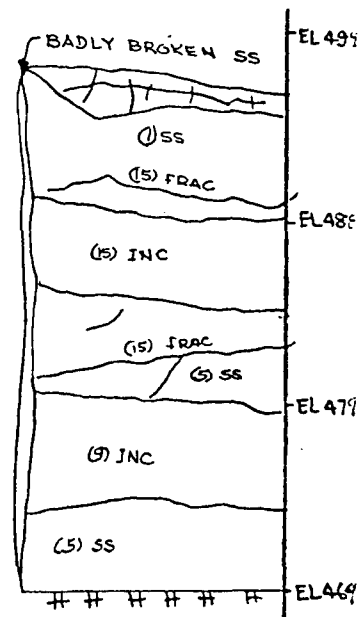
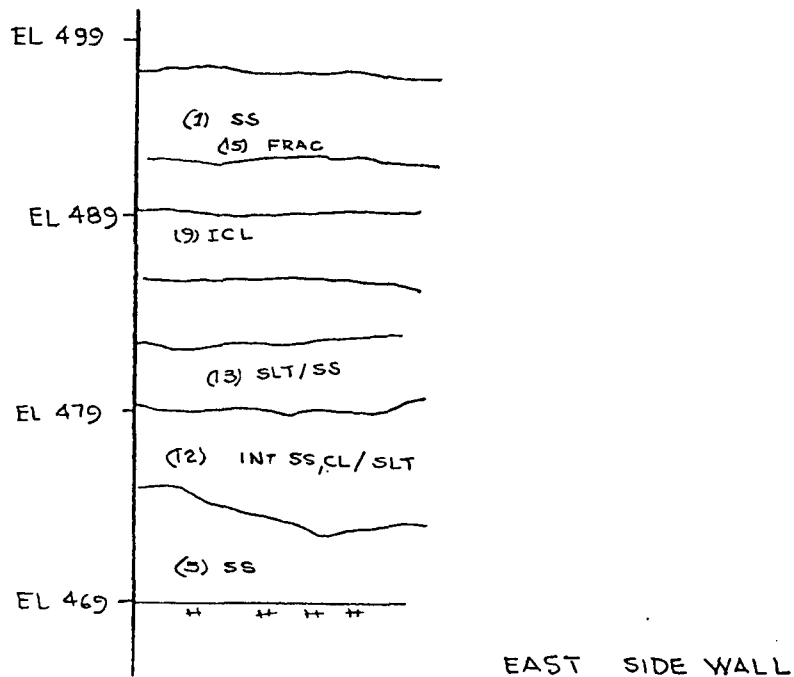
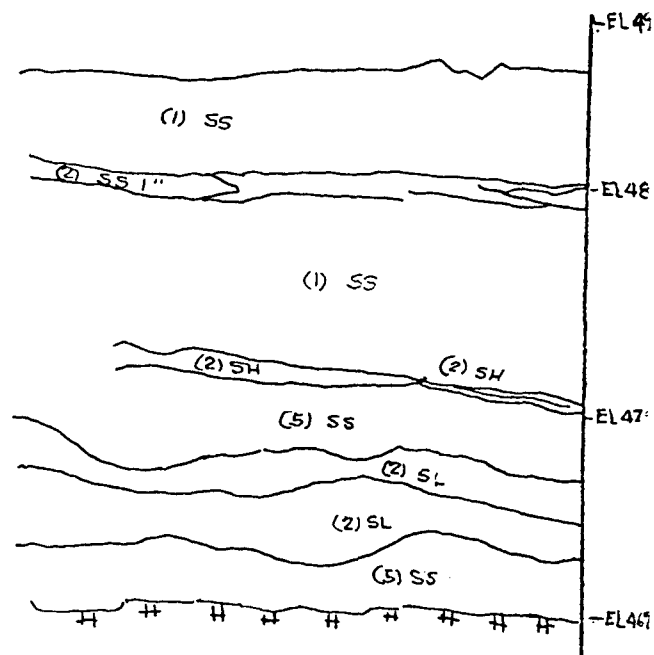
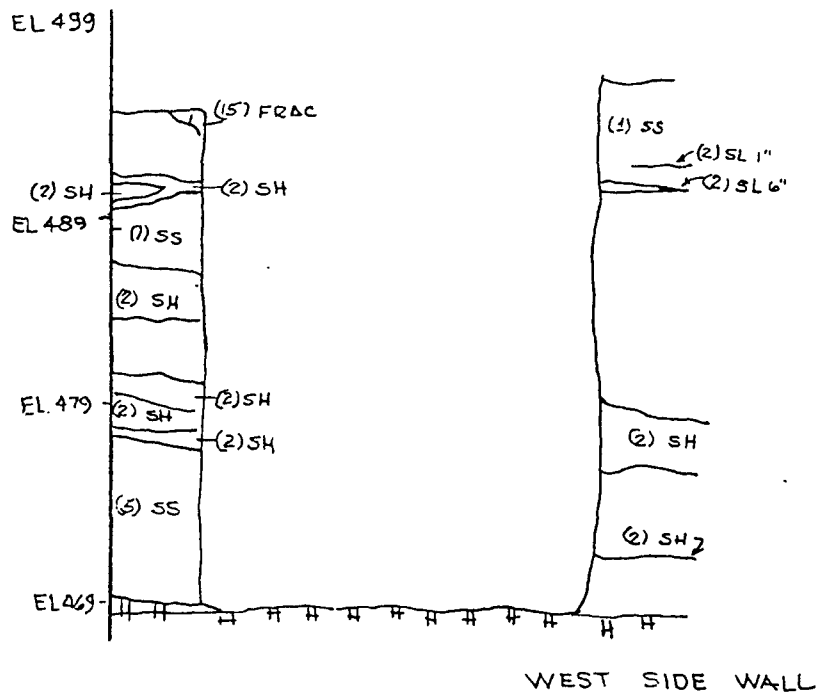






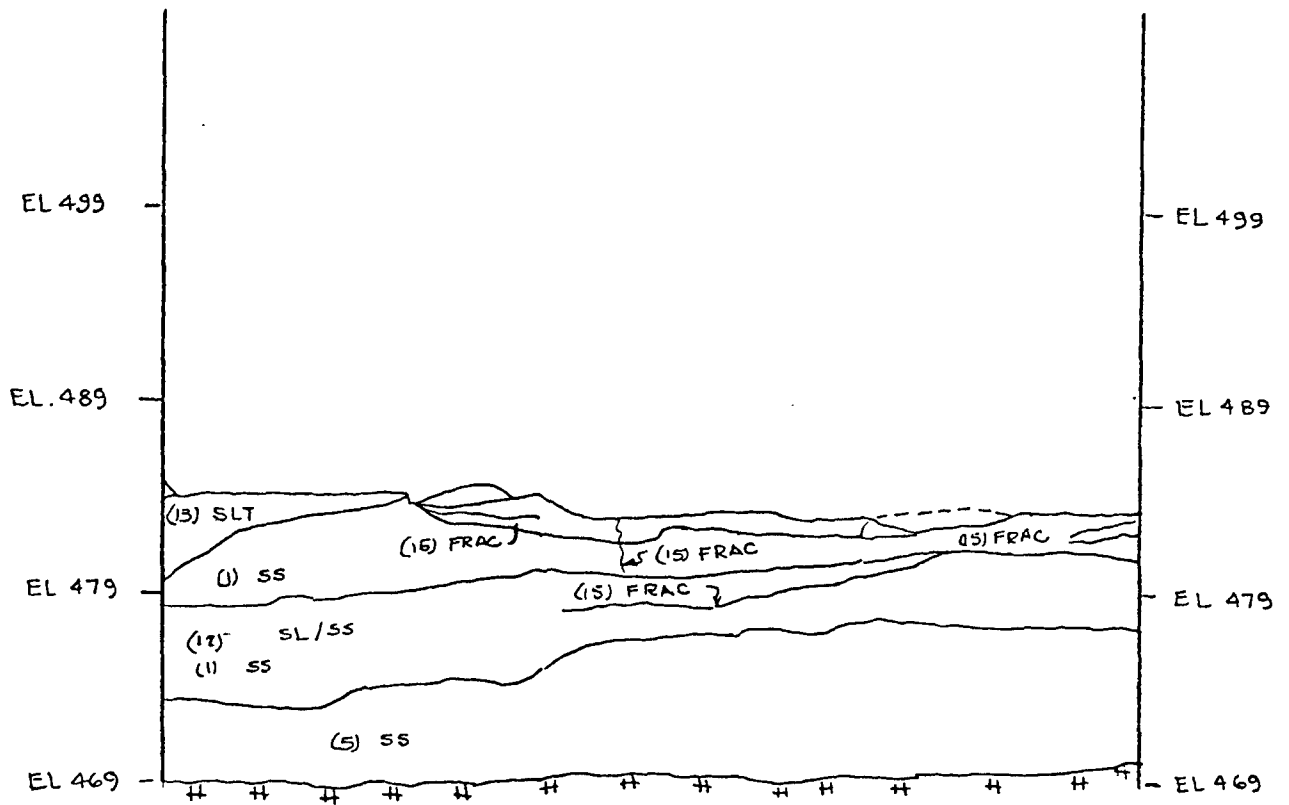
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 5



U.S. Army Corps of Engineers

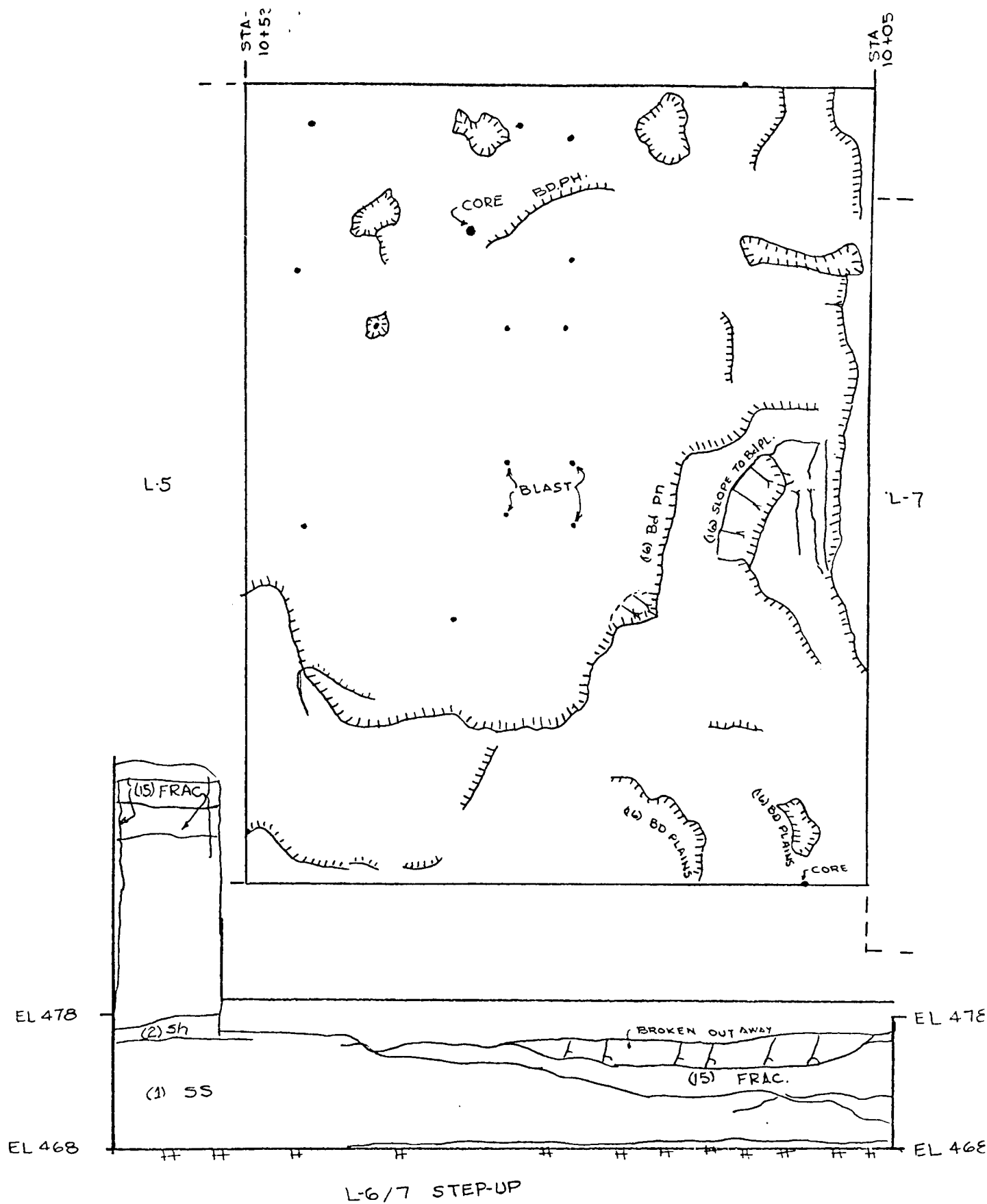
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 5



STEP DOWN L-4 TO L-5

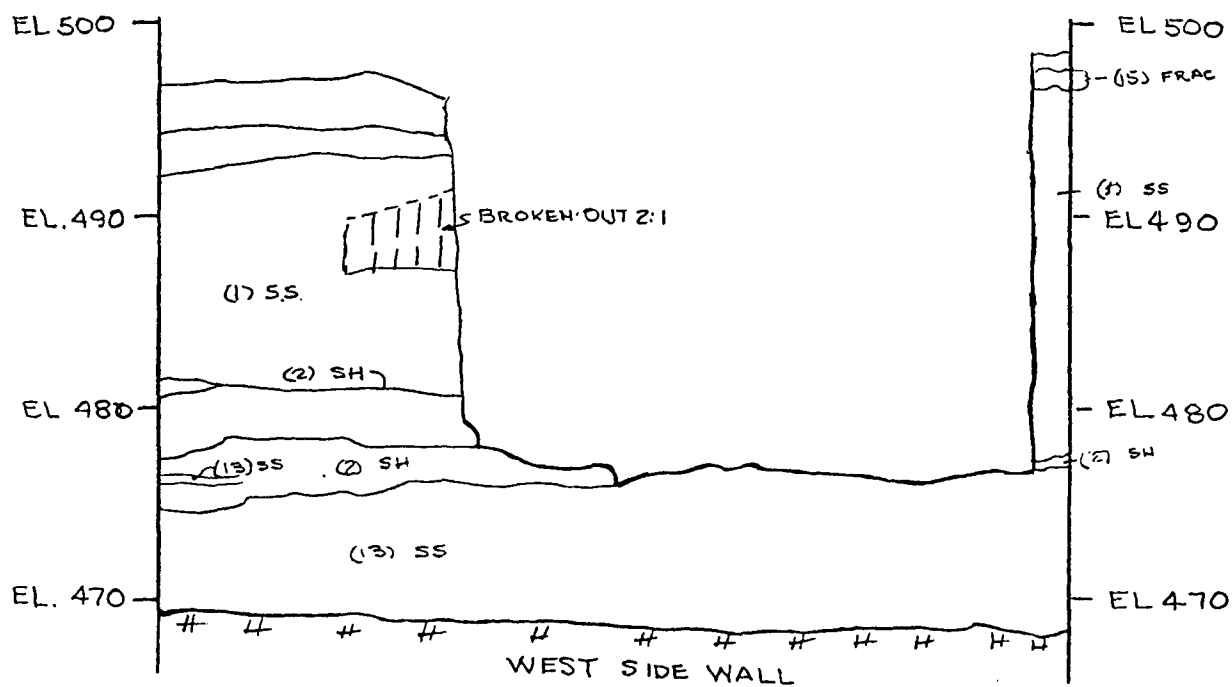
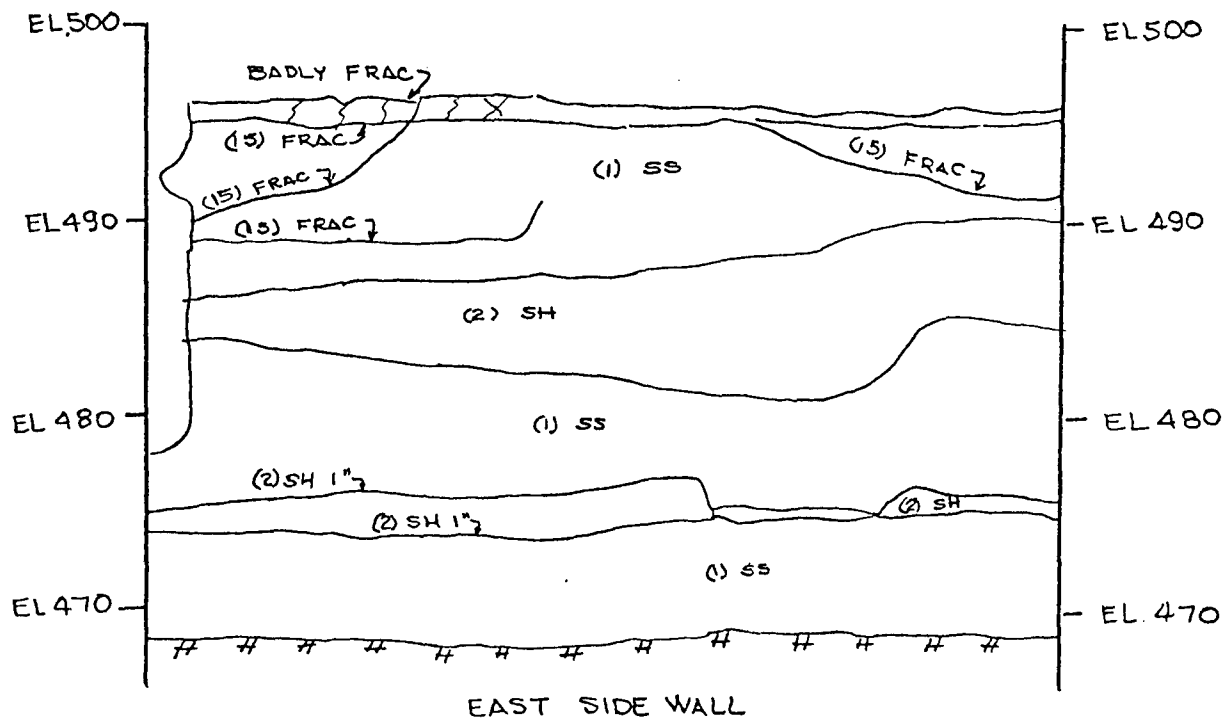
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 5



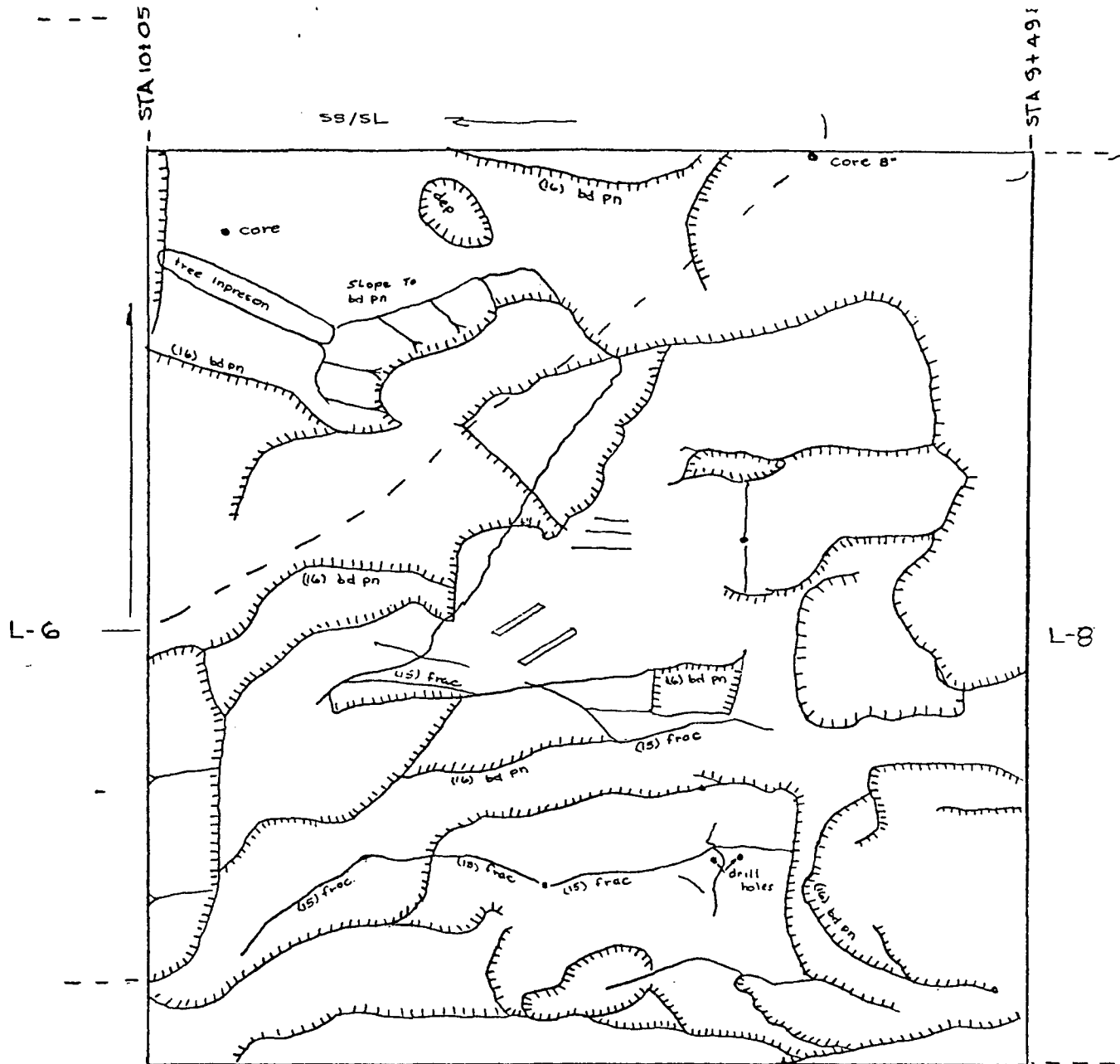
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 6



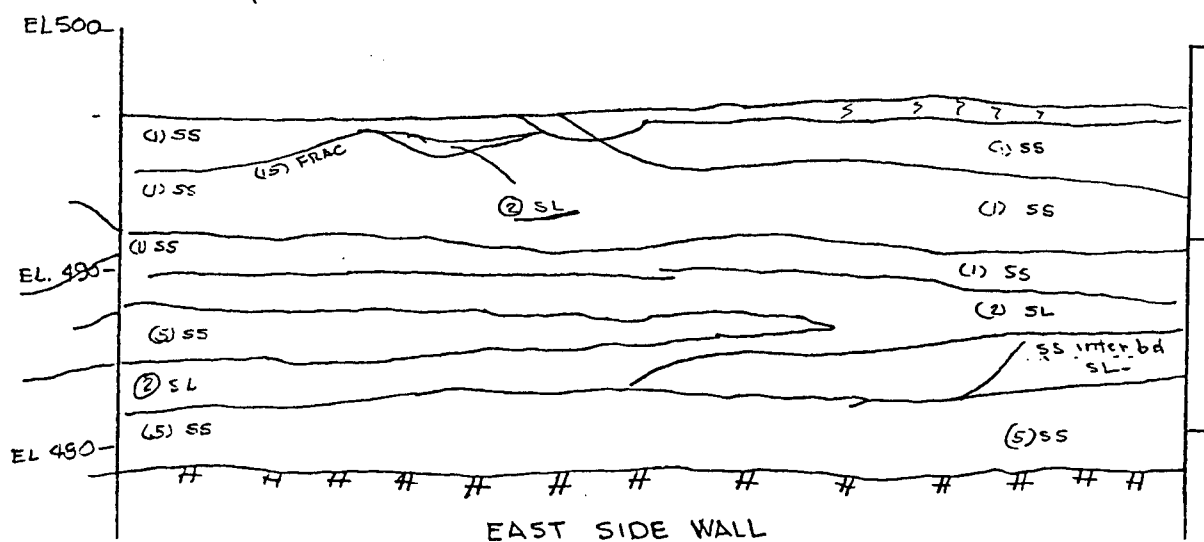
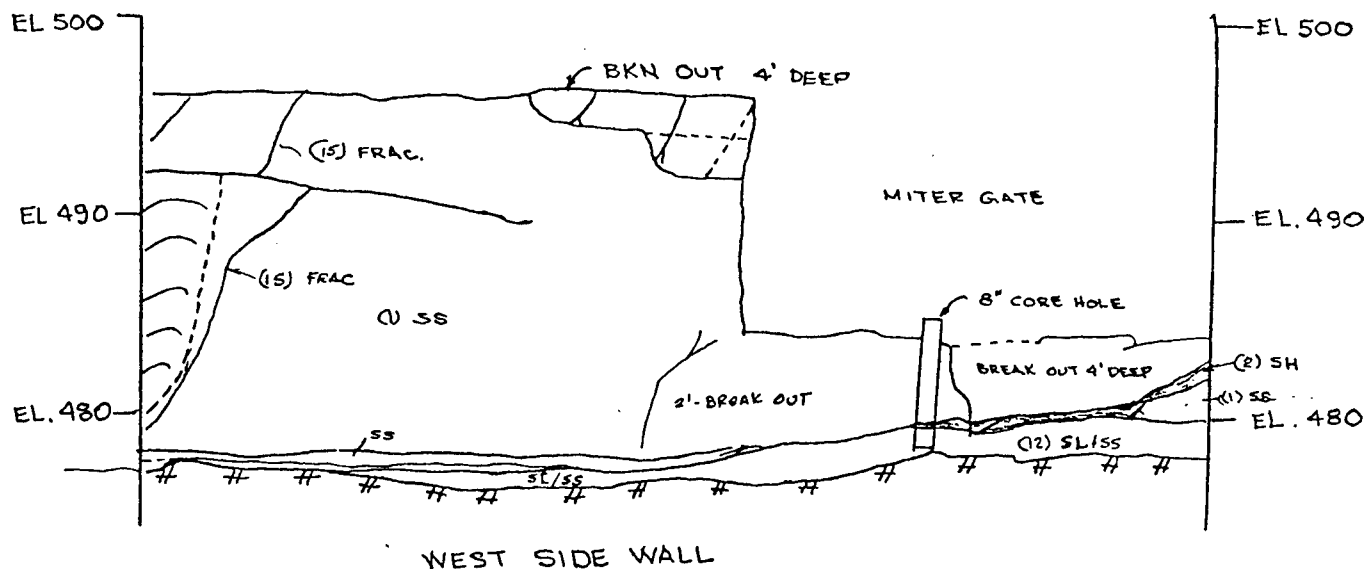
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 6



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 7



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 7



A hand-drawn geological map of a field site. The map is enclosed in a rectangular border. Key features include:

- Geological Units:**
  - (2) Sh:** Shale, located in the upper left and upper right.
  - (1) SS:** Sandstone, located in the lower left.
  - (15) bd pn:** Bedding plane, indicated by lines with small perpendicular ticks.
- Structural Features:**
  - fracture:** Indicated by lines with small perpendicular ticks, labeled (15) fracture.
  - bedding plane:** Indicated by lines with small perpendicular ticks, labeled (16) bd pn.
- Other Features:**
  - core hole:** A small circle with a dot in the center, labeled 'core hole'.
  - blast holes:** Small circles with dots in the center, labeled 'blast holes'.
  - water seepage:** Indicated by wavy lines, labeled 'water seepage'.
  - num. ripper mark:** A horizontal line with a small perpendicular tick, labeled 'num. ripper mark'.
  - St:** A small 'St' label, possibly indicating a specific geological feature or unit.

STA. 9+05B

L-7

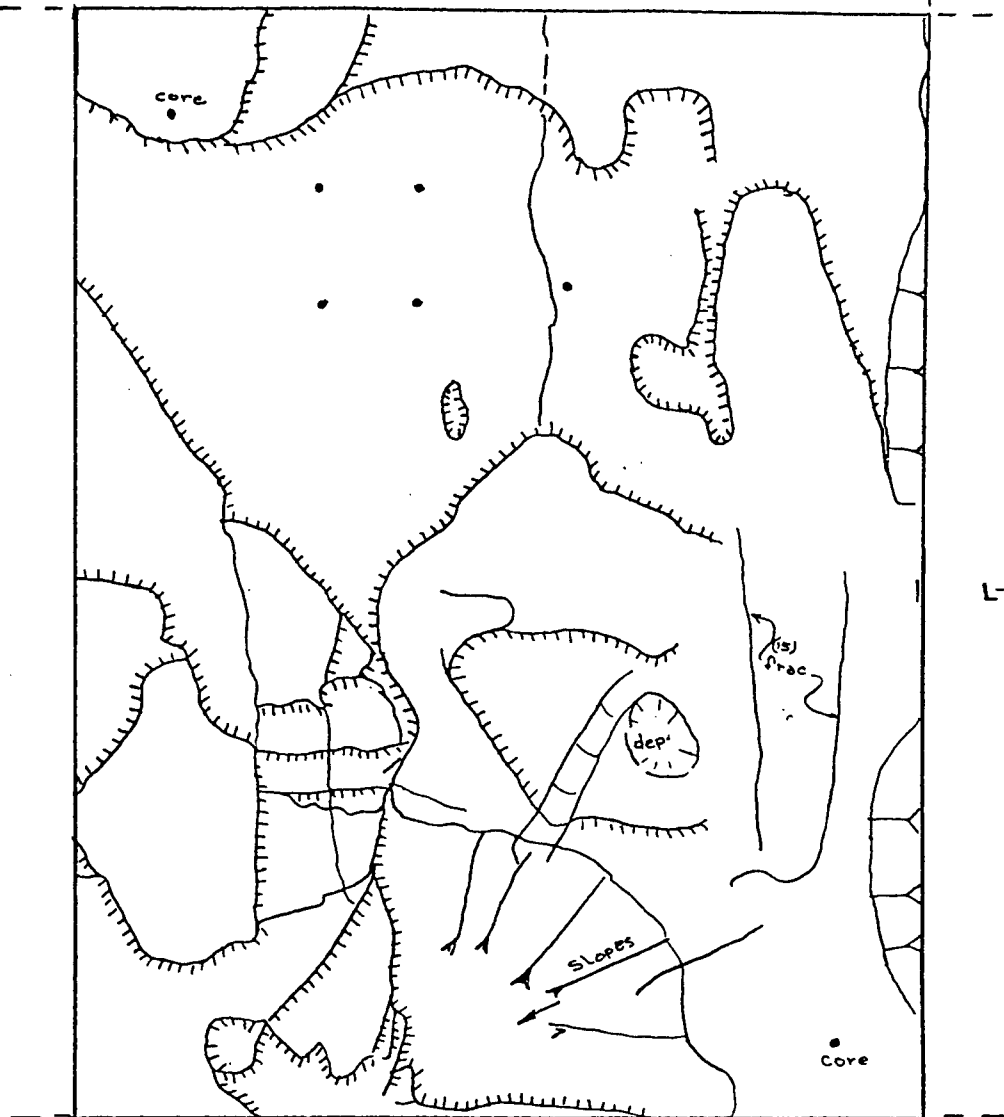
L-9

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 8

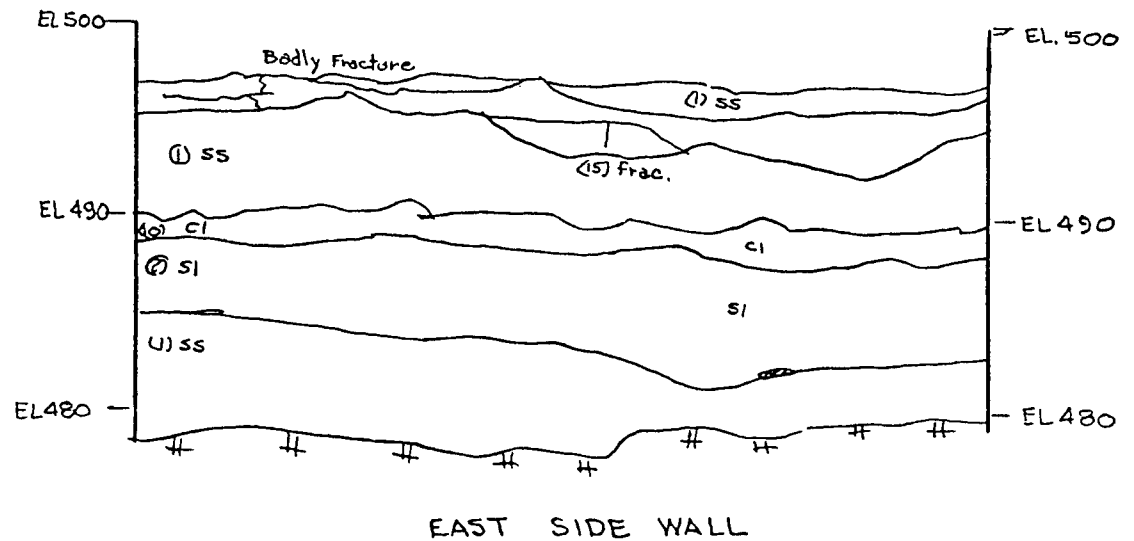
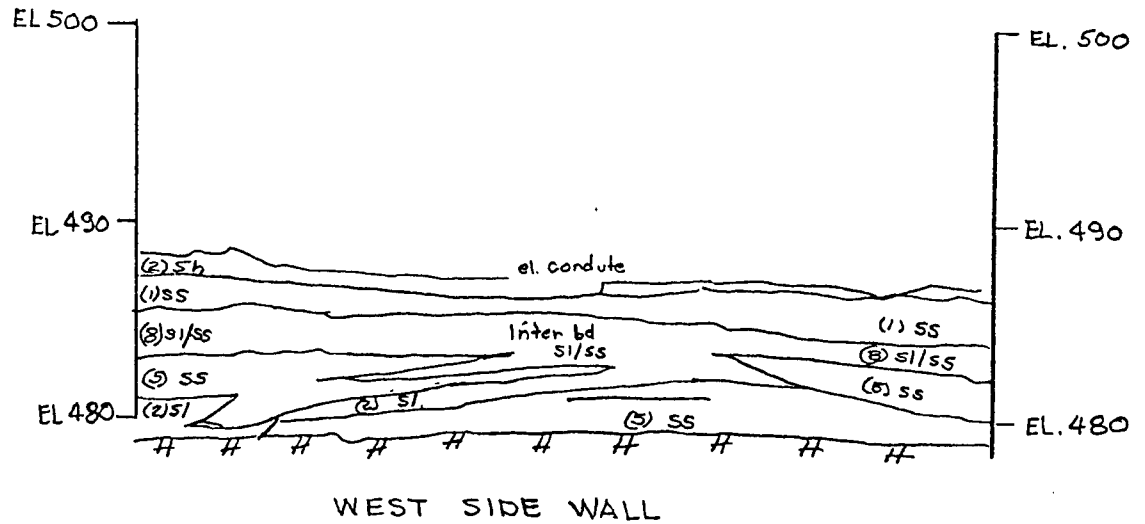


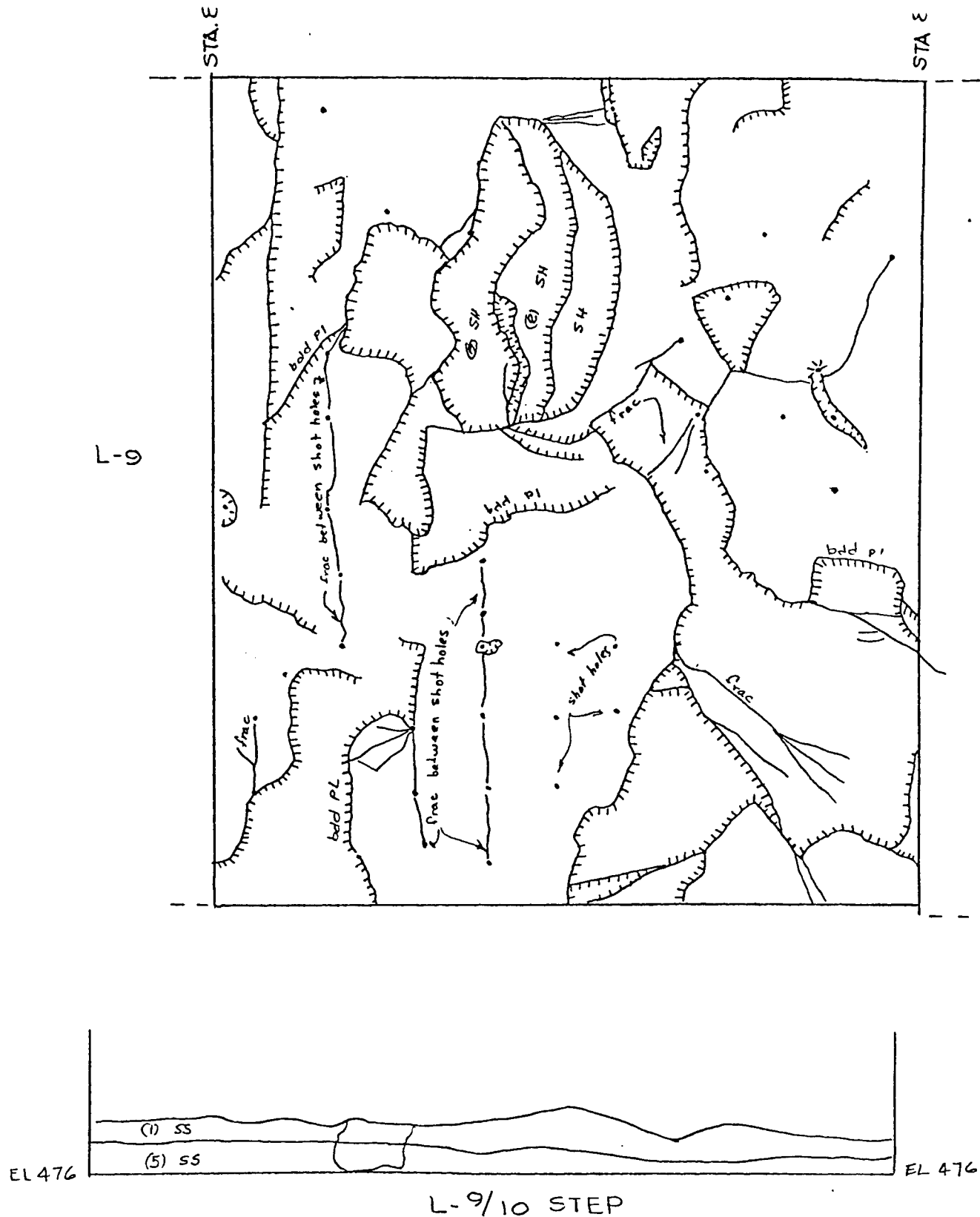
STA. 8+60B

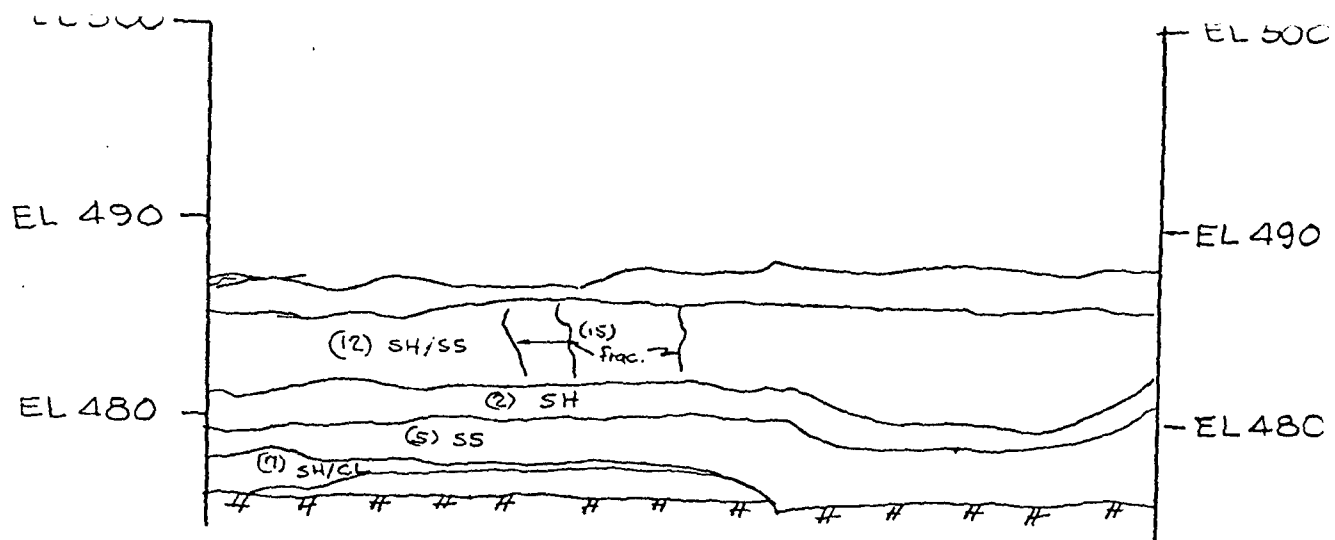
L-10



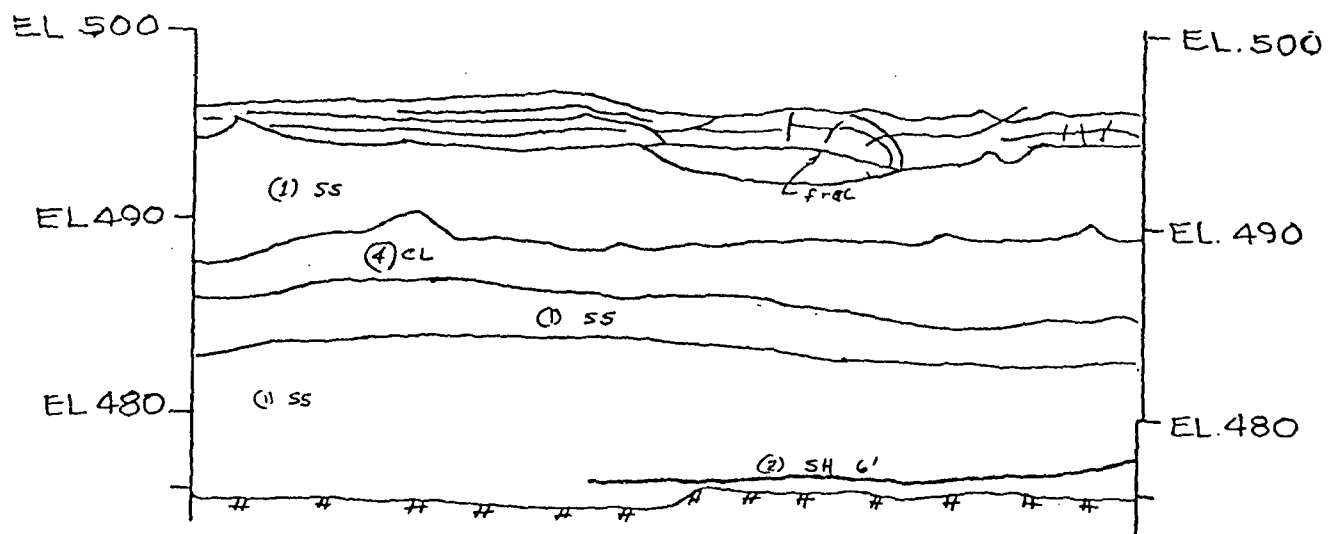
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 9



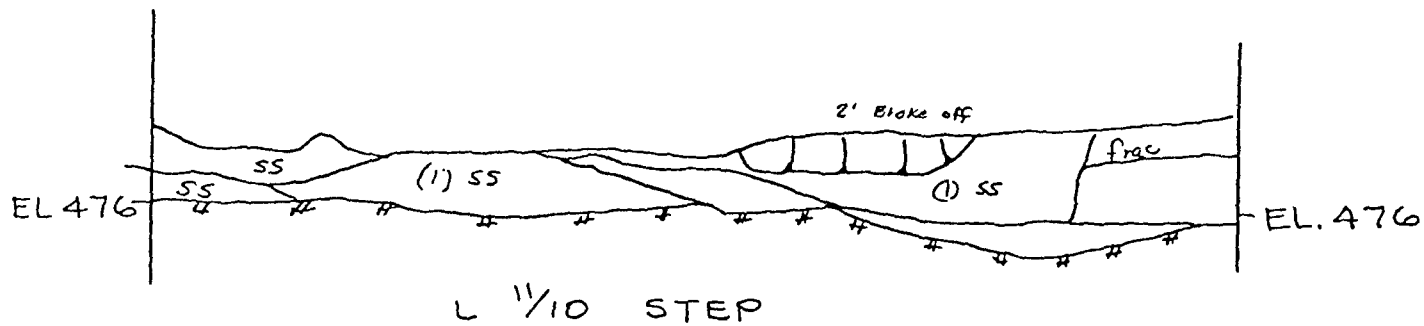




WEST SIDE WALL



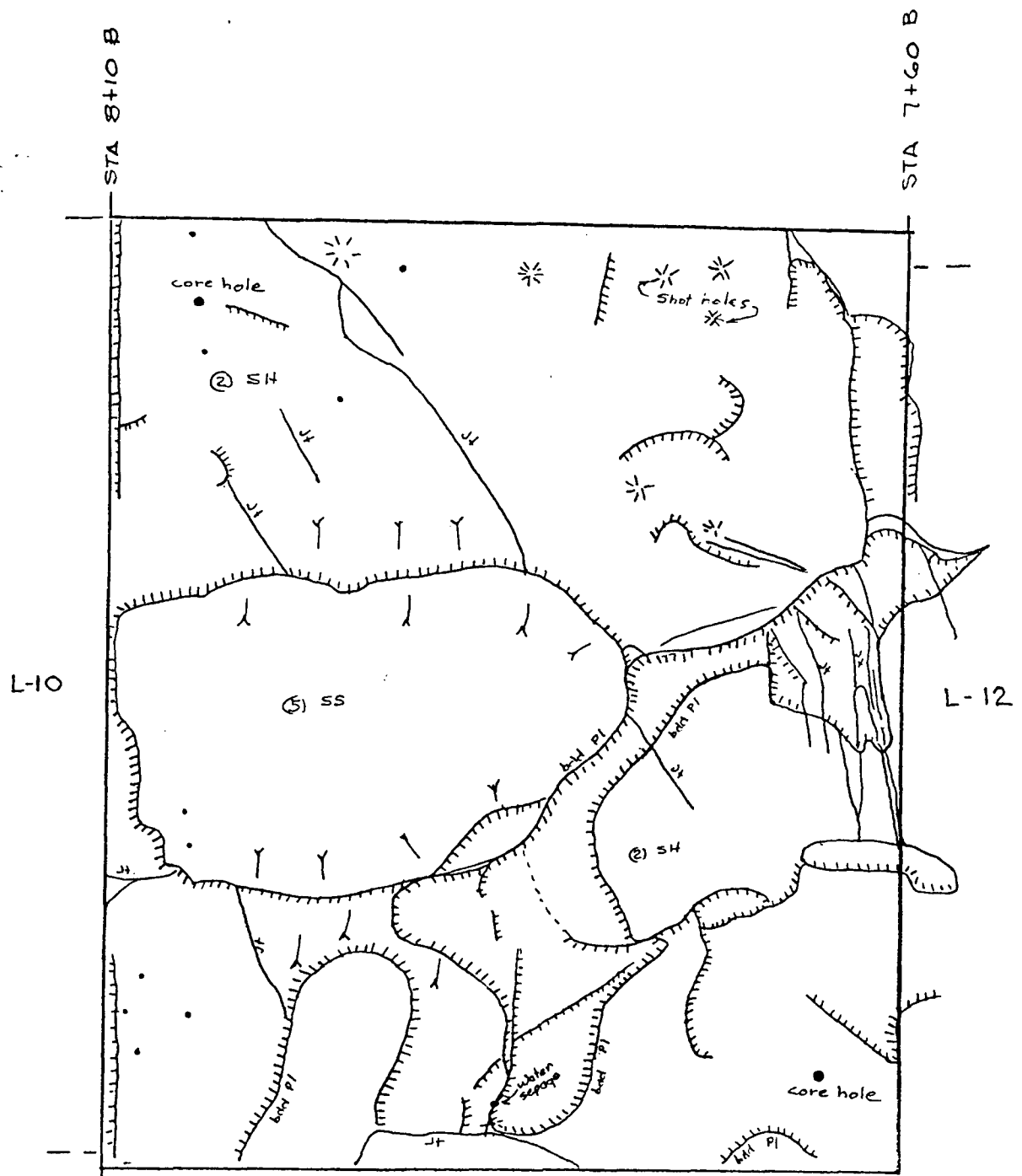
EAST SIDE WALL

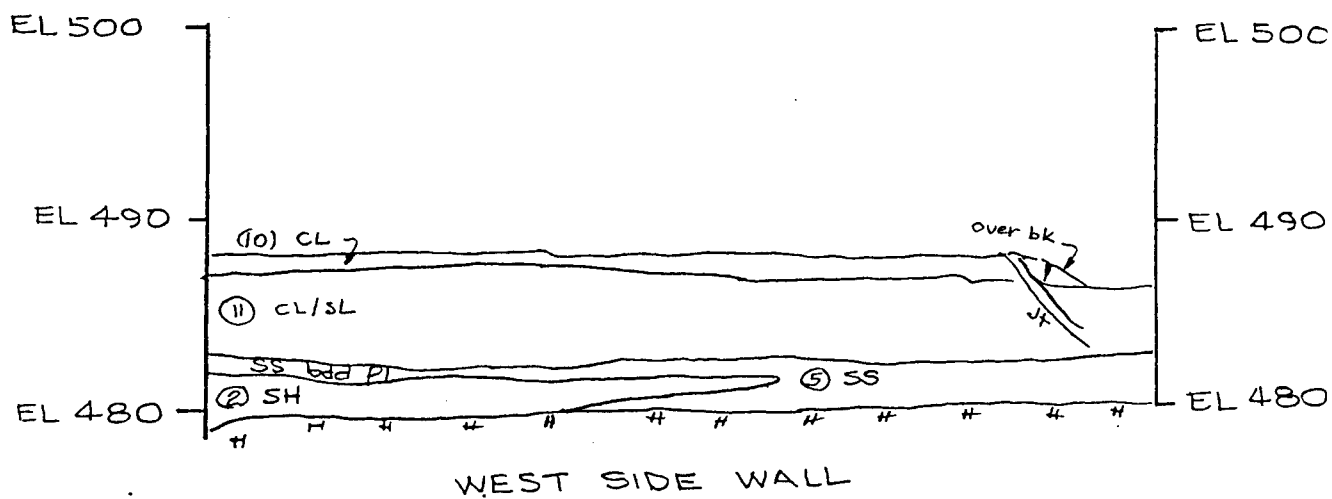
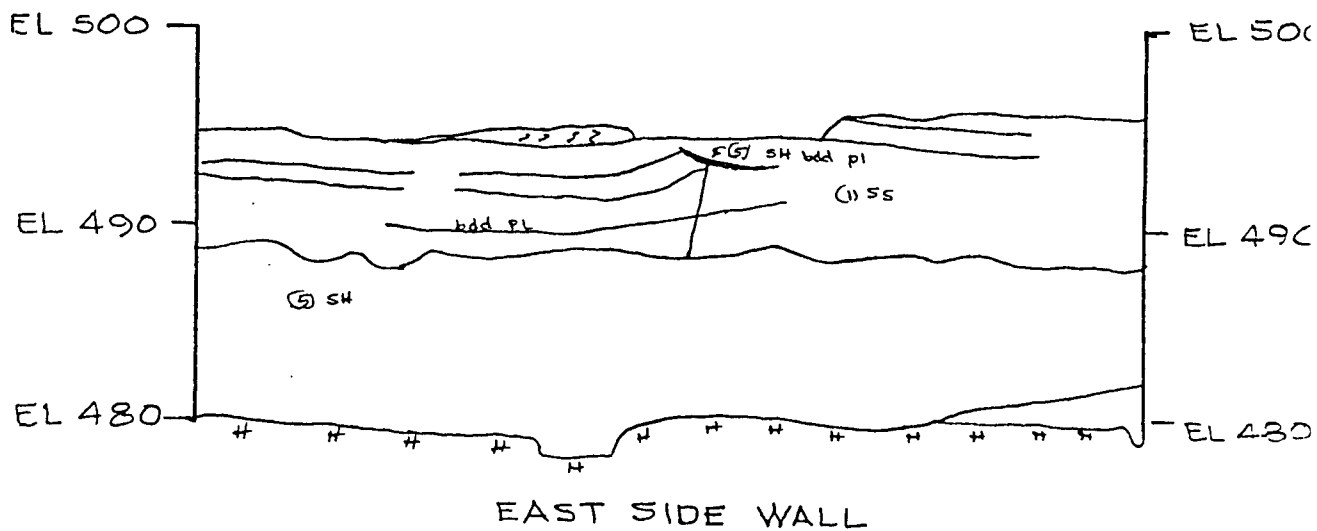


L 11/10 STEP

U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 10





U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 11

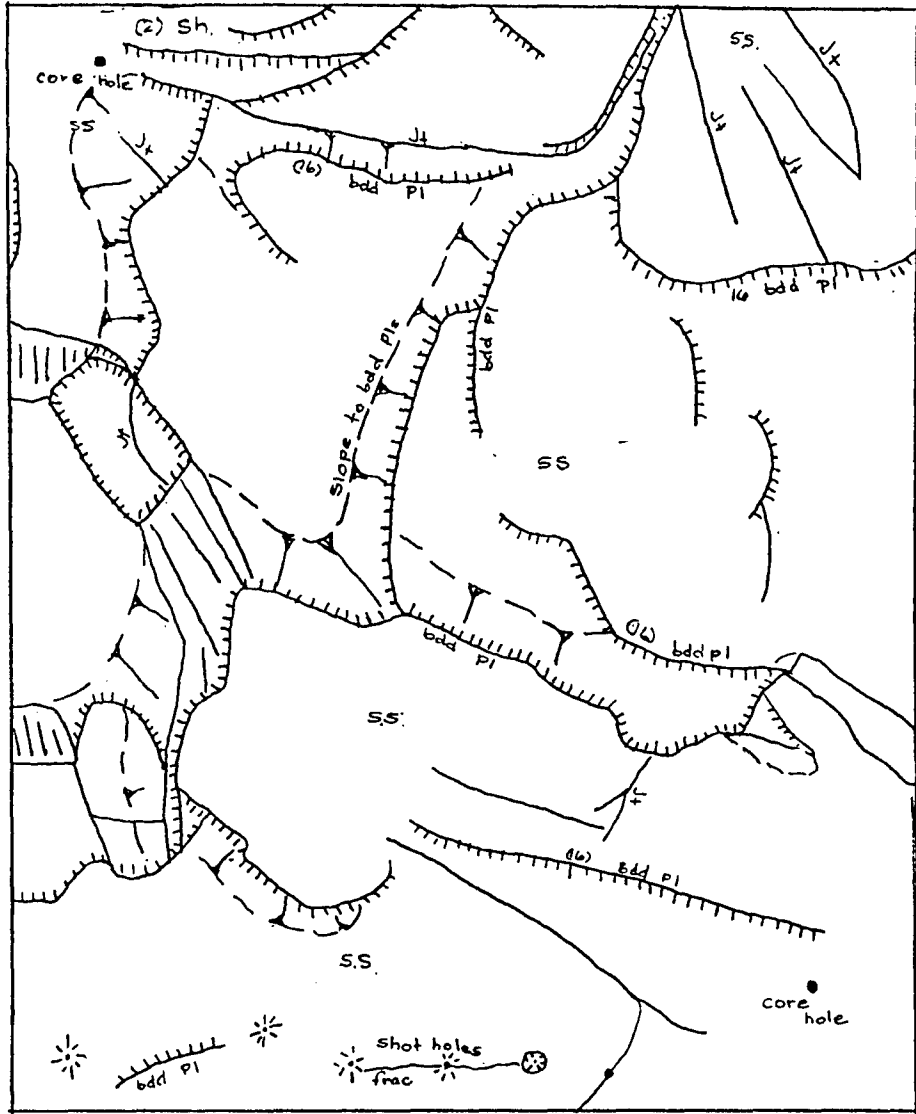


-STA 7+60

-STA 7+12

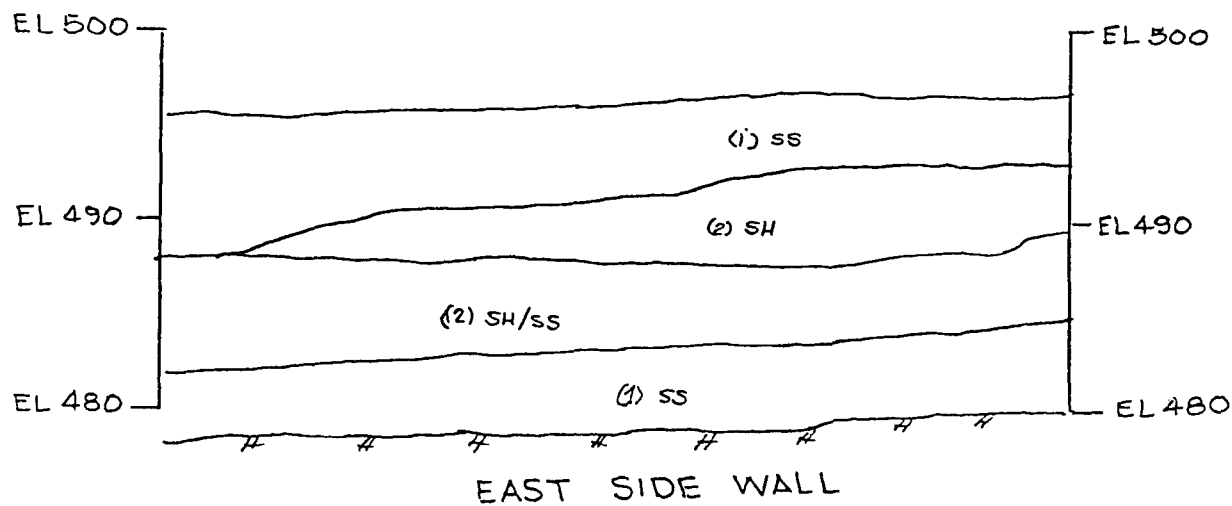
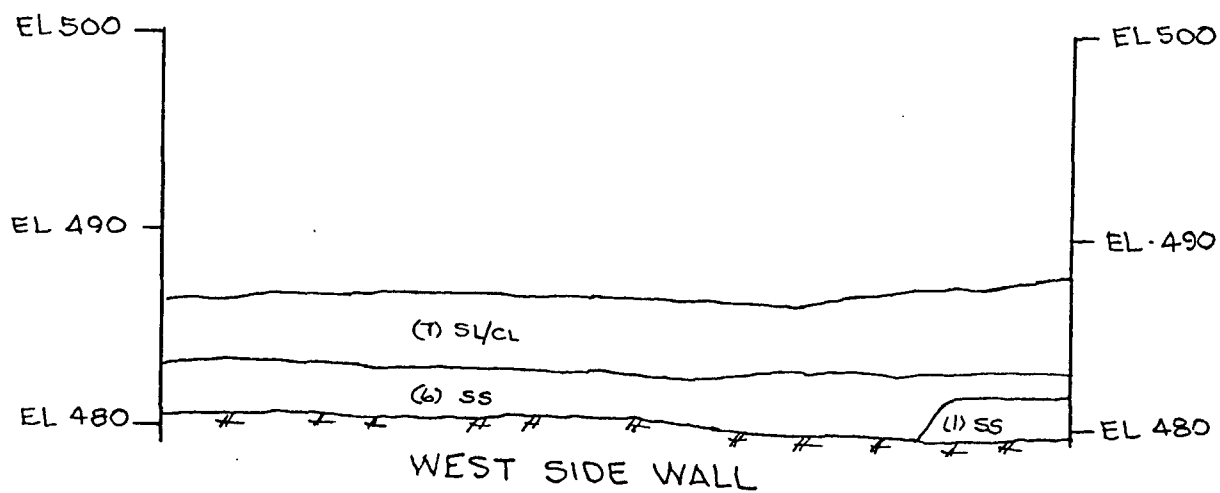
L-11

L-13



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 12



U.S. Army Corps of Engineers

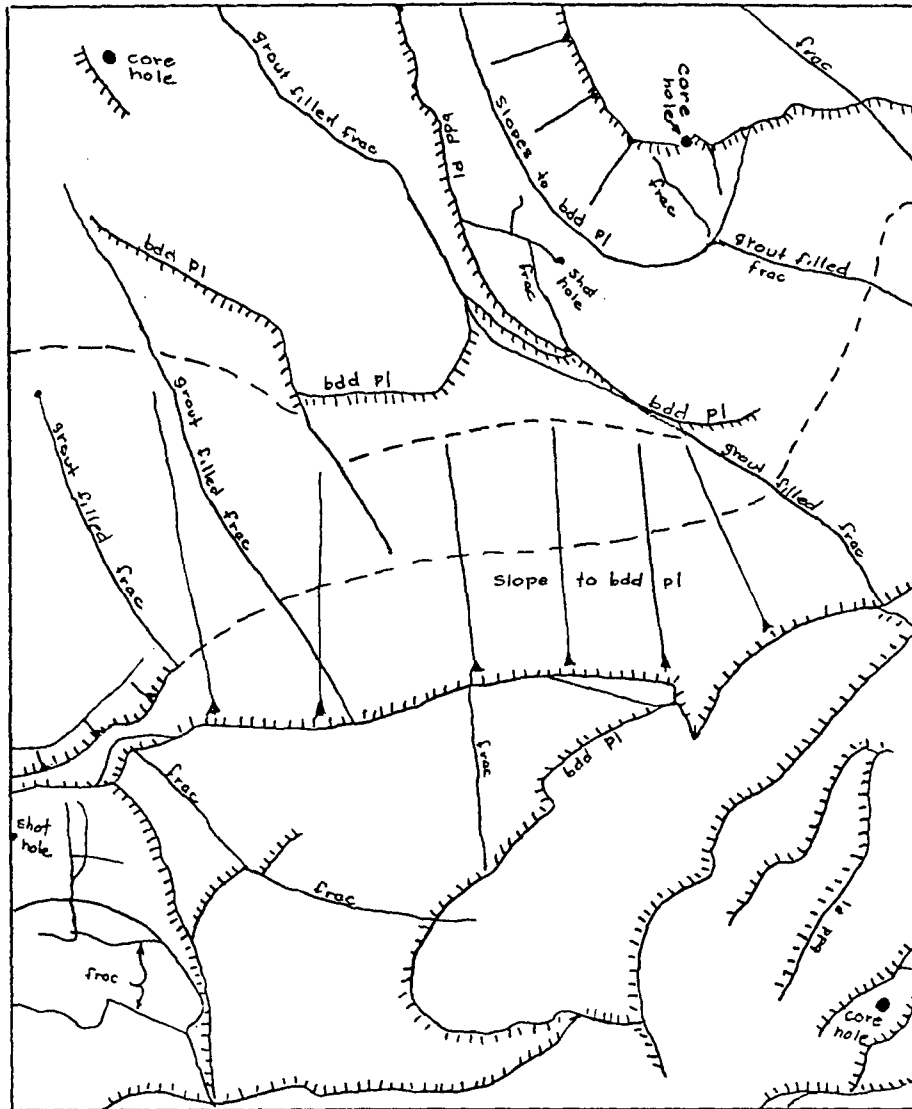
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 12

STA. 7+12B

STA 6+64 B

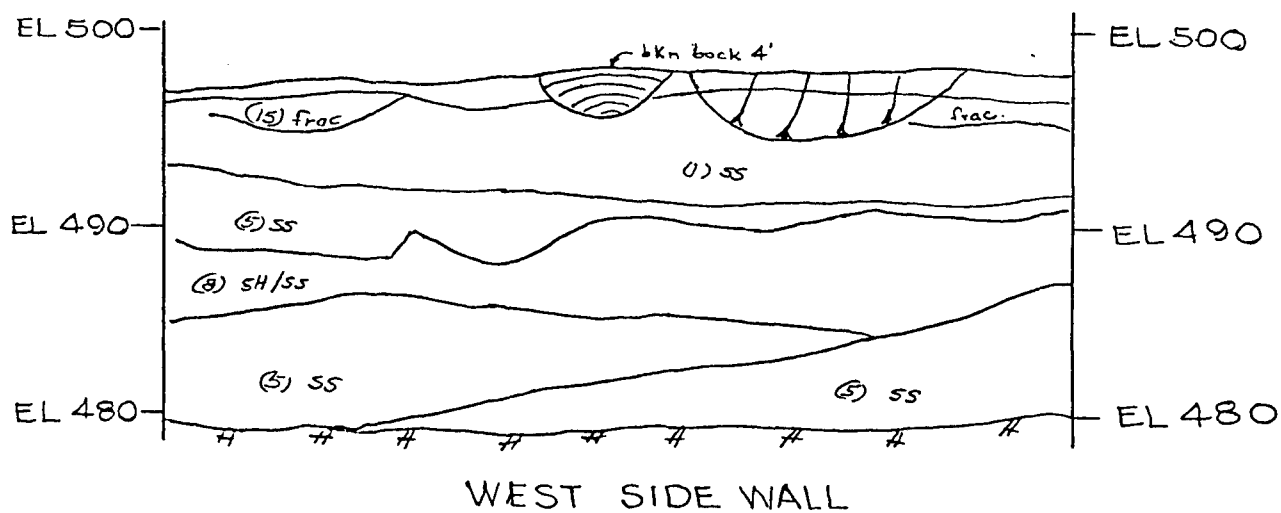
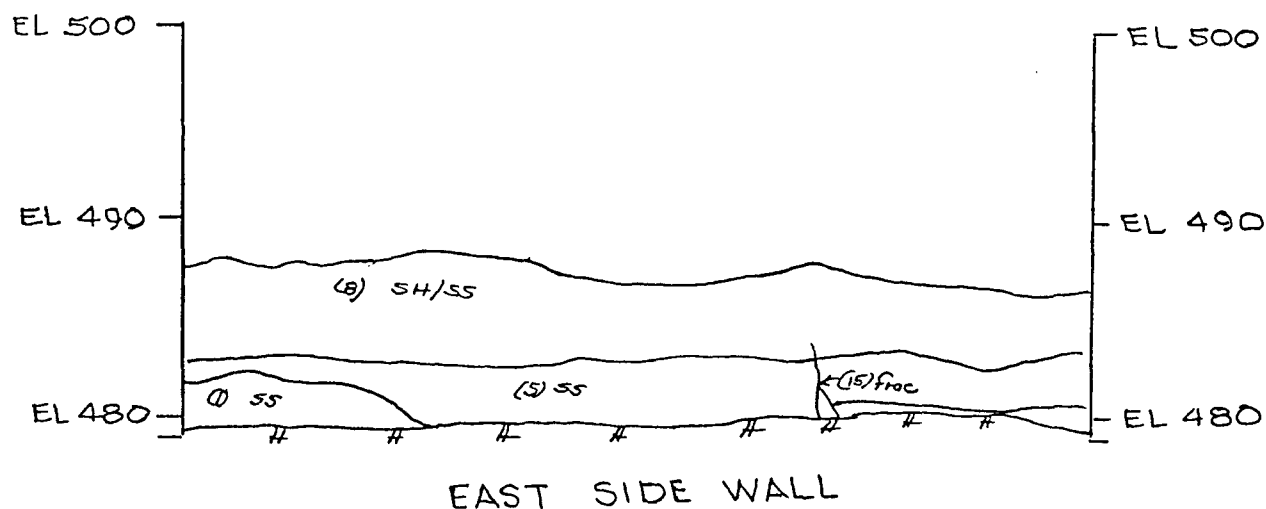
L12

L-14



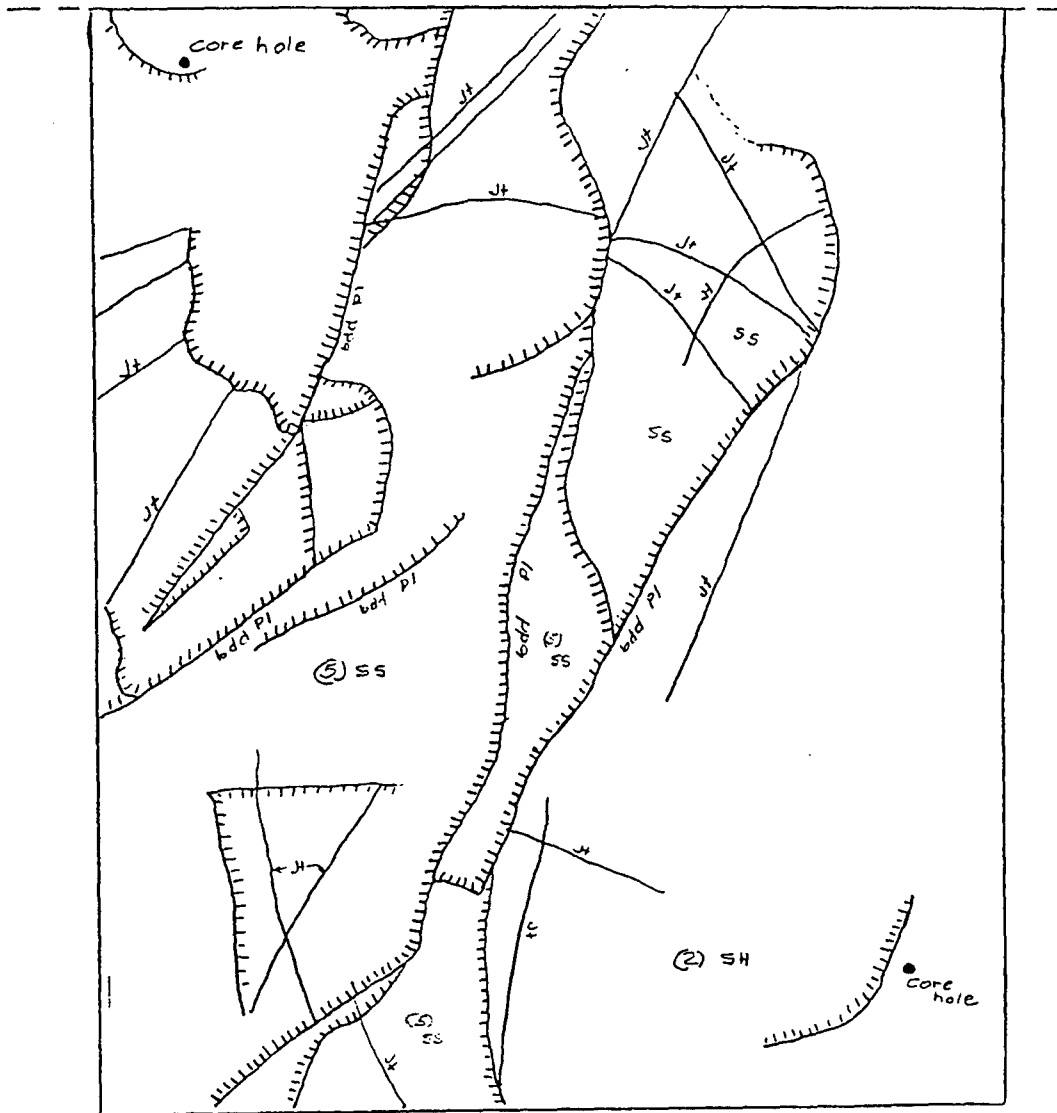
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 13



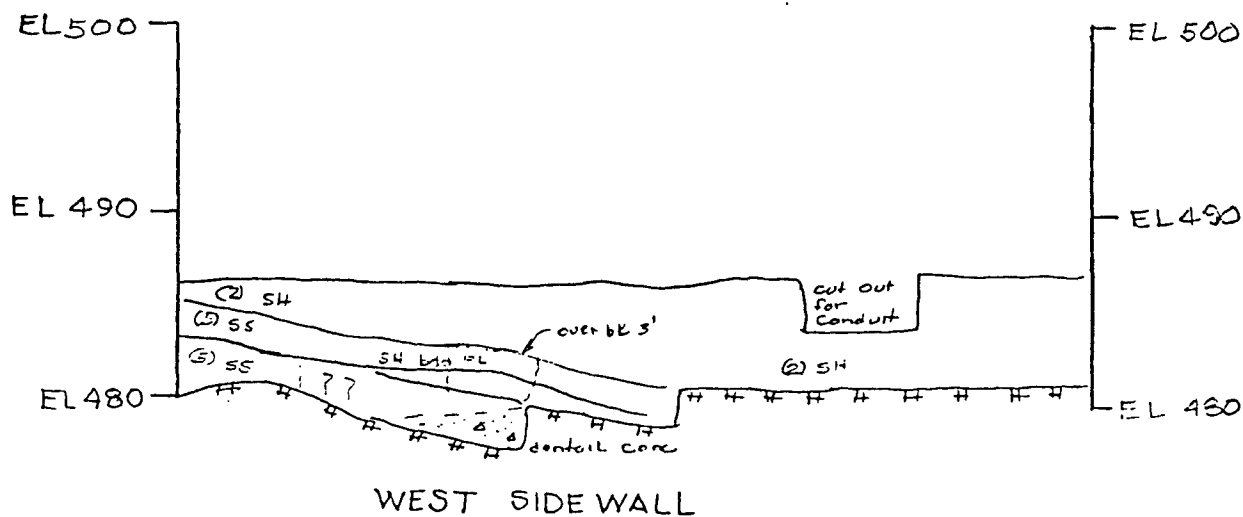
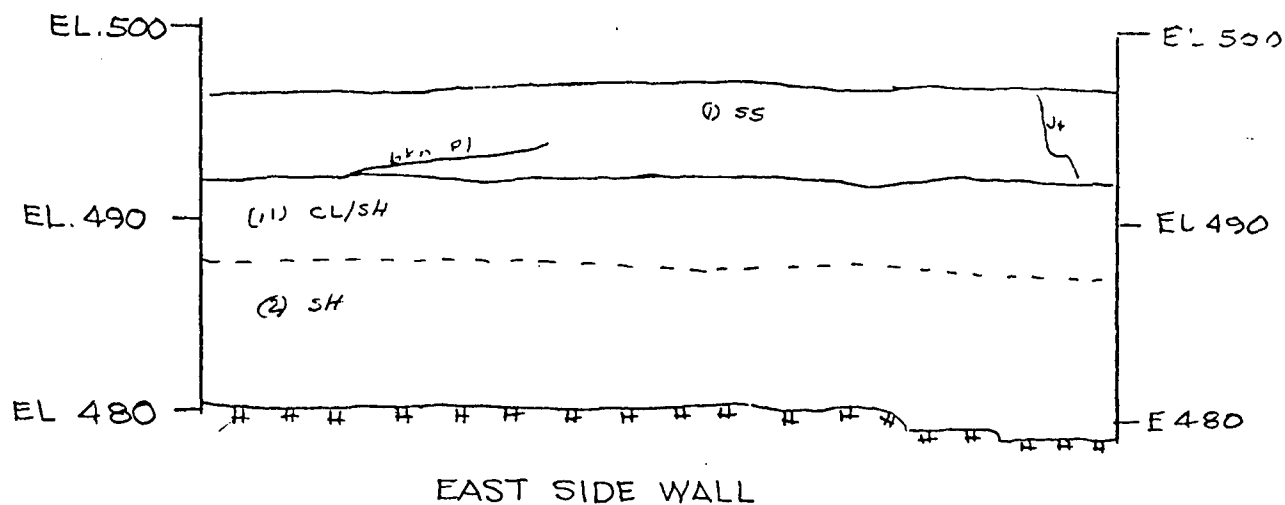
STA-6+64 B

STA-6+10 B



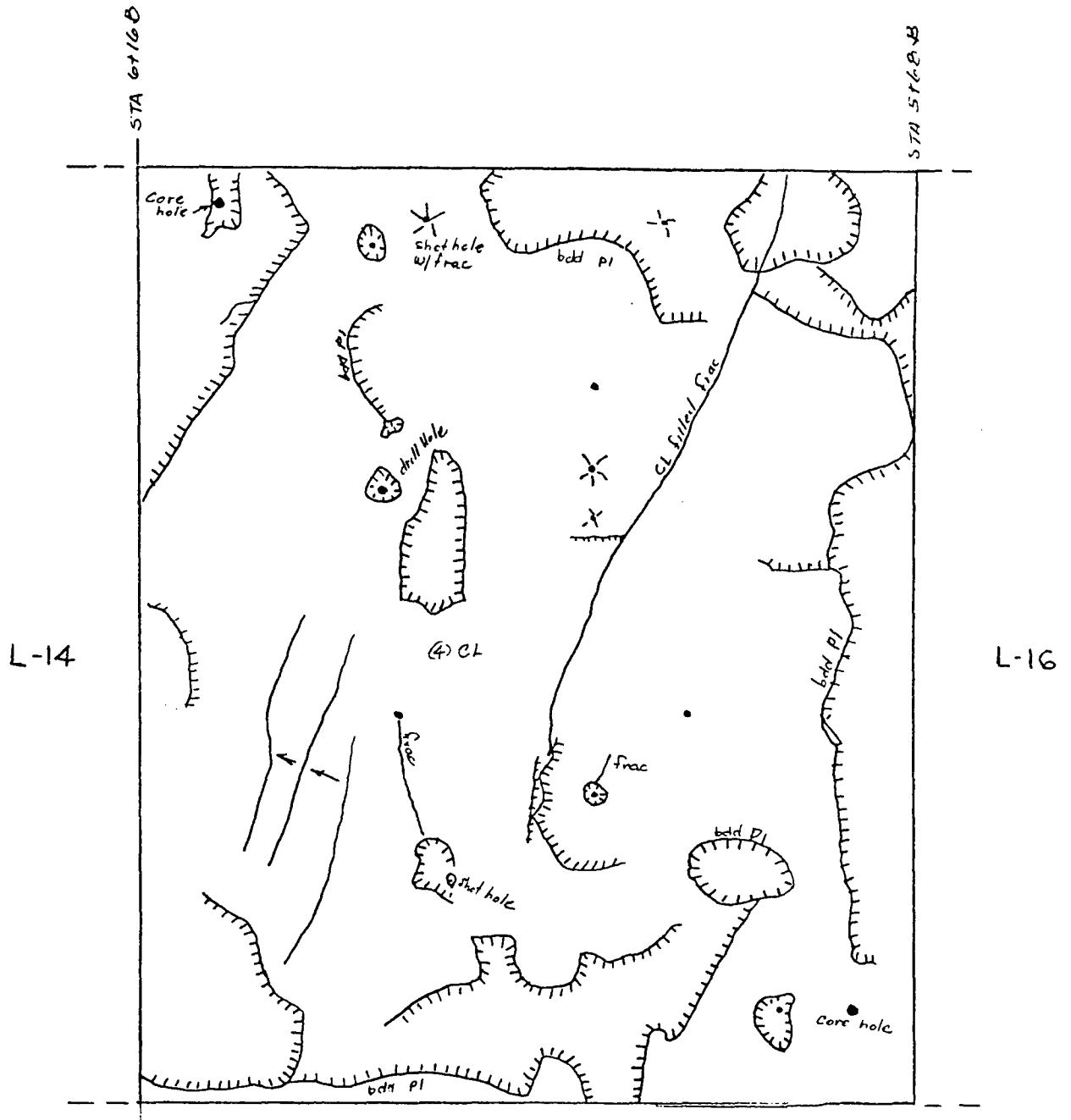
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 14



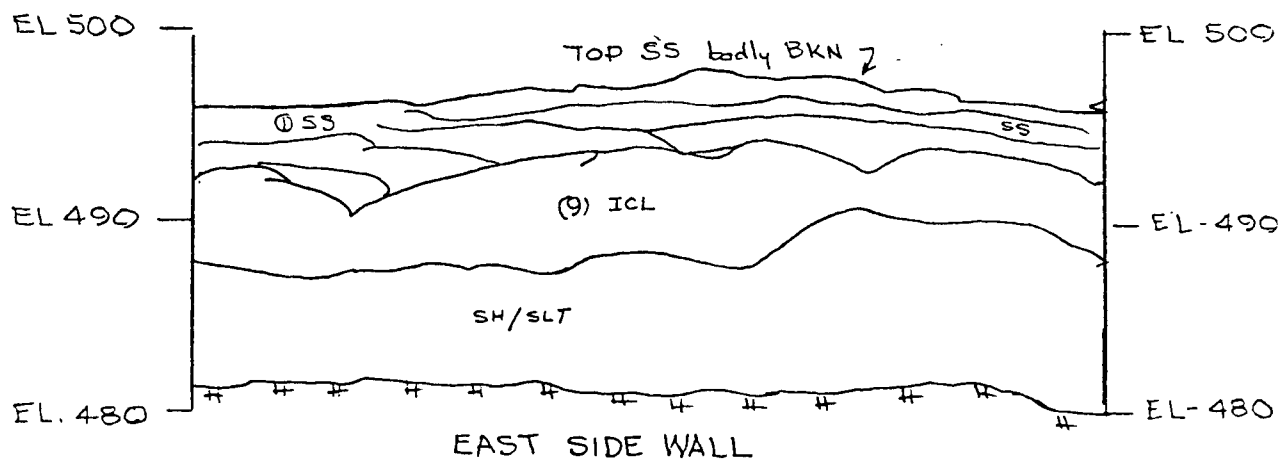
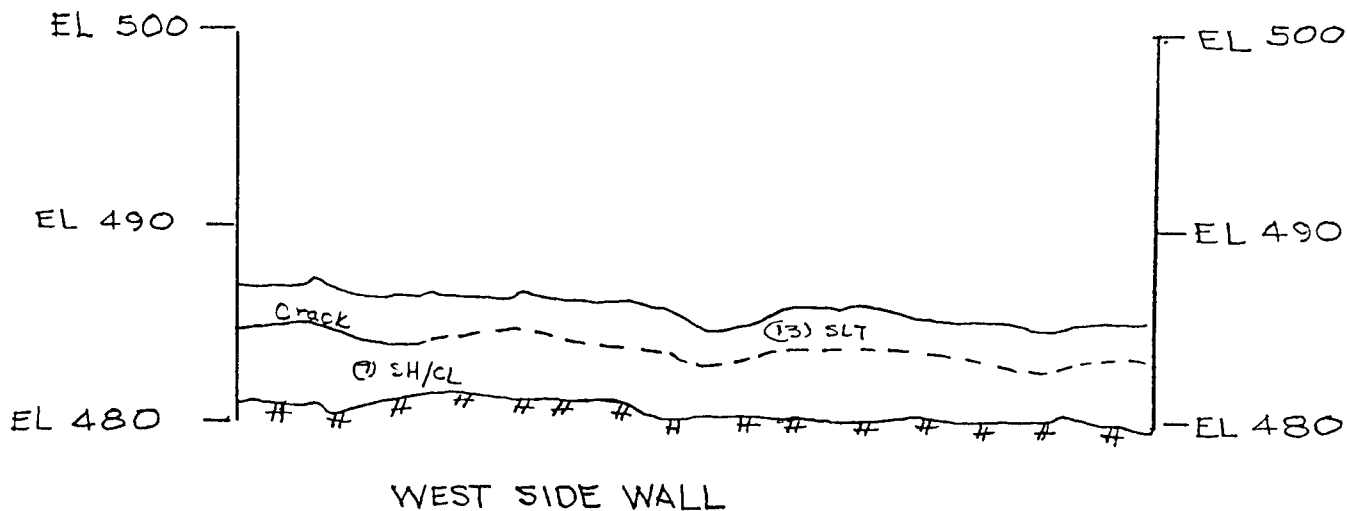
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 14



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 15



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 15

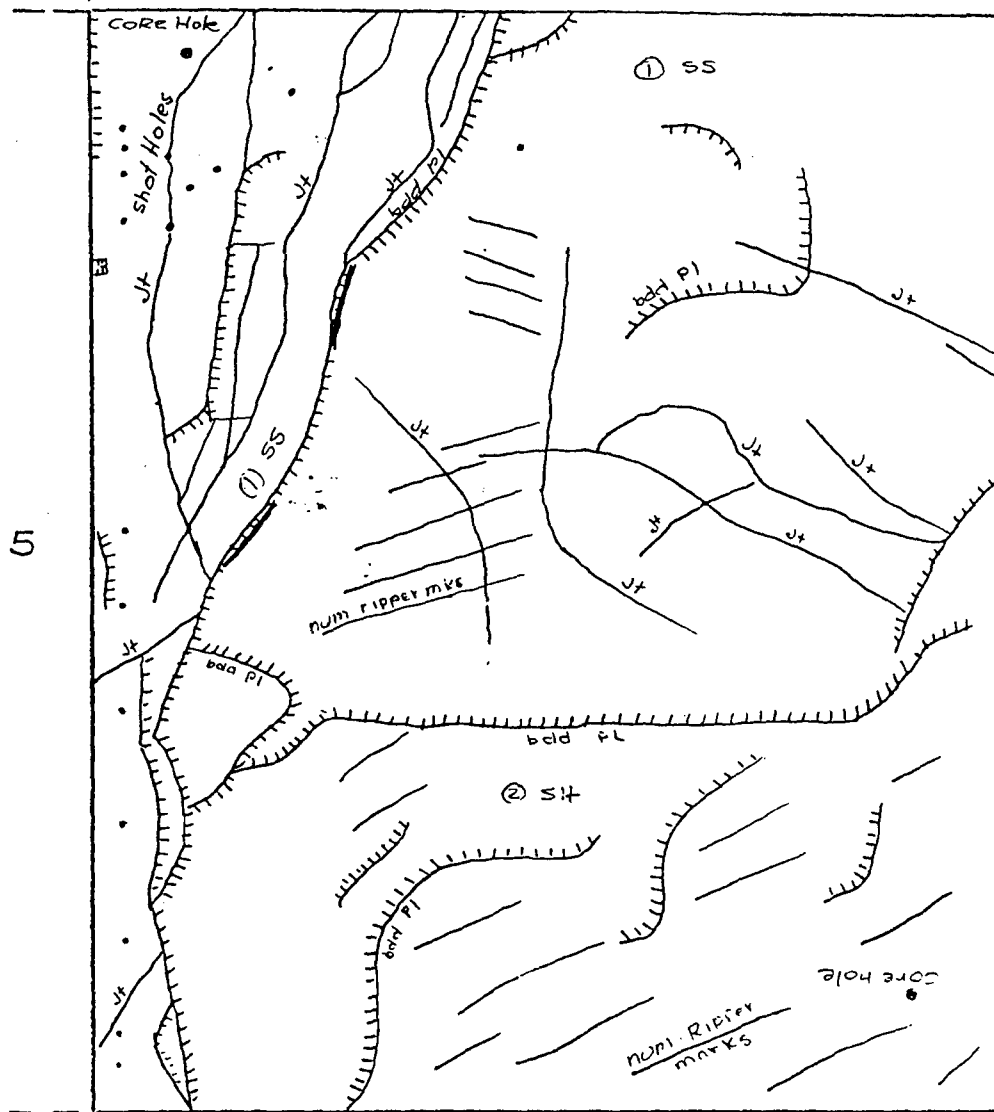


STA. 5+688

STA. 5+208

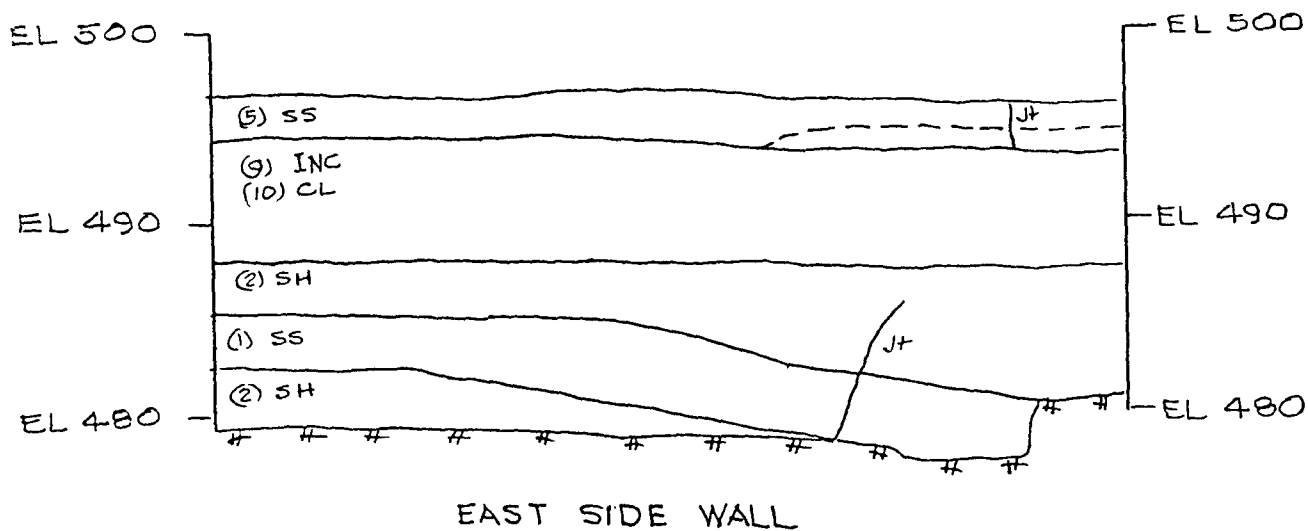
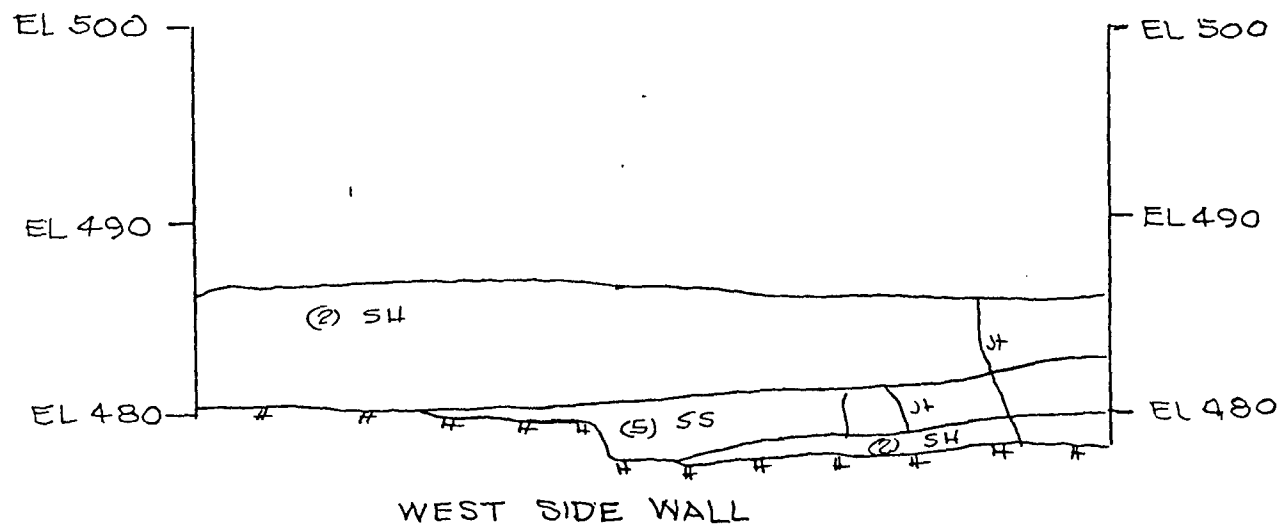
L-15

L-17



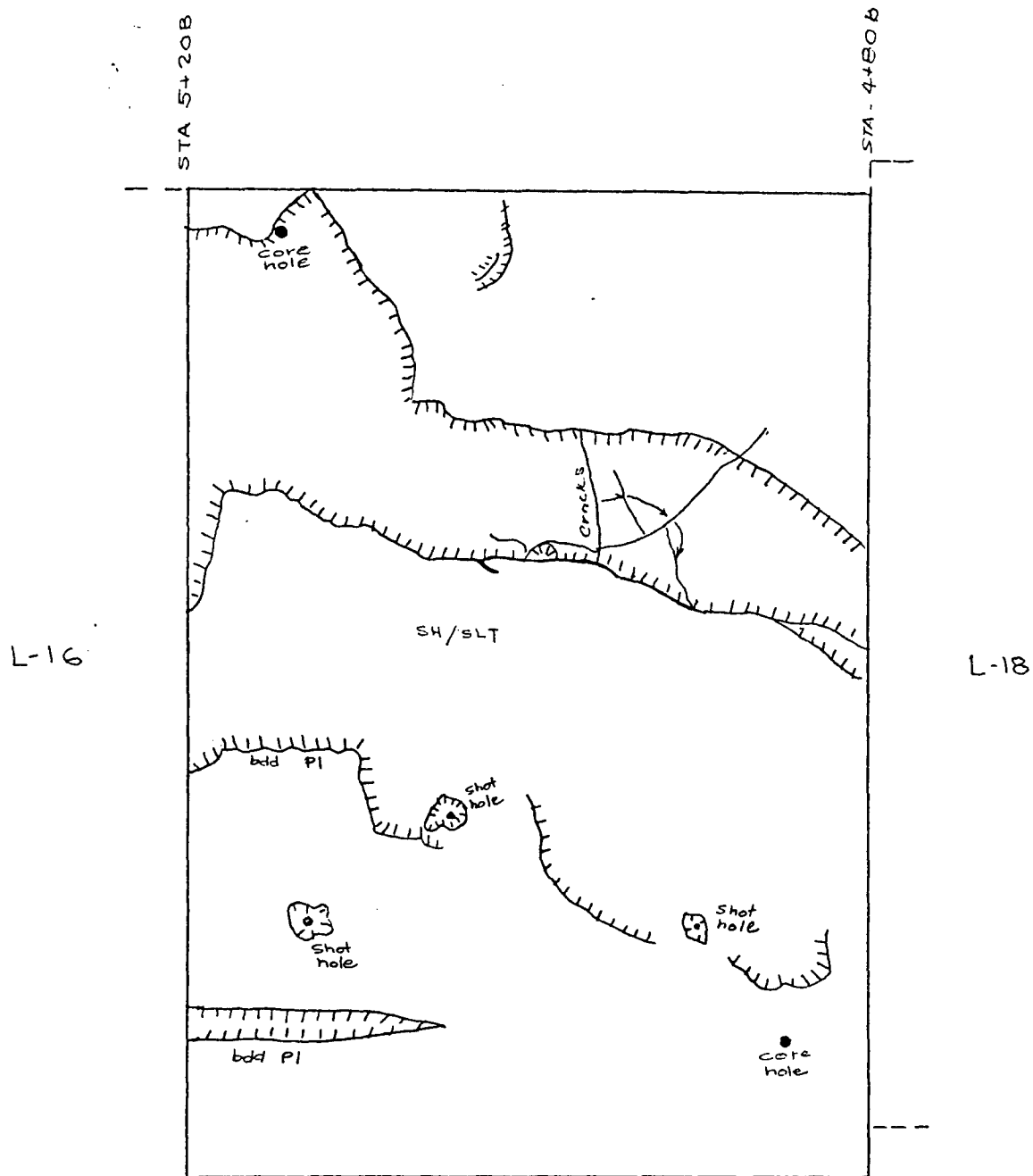
U.S. Army Corps of Engineers

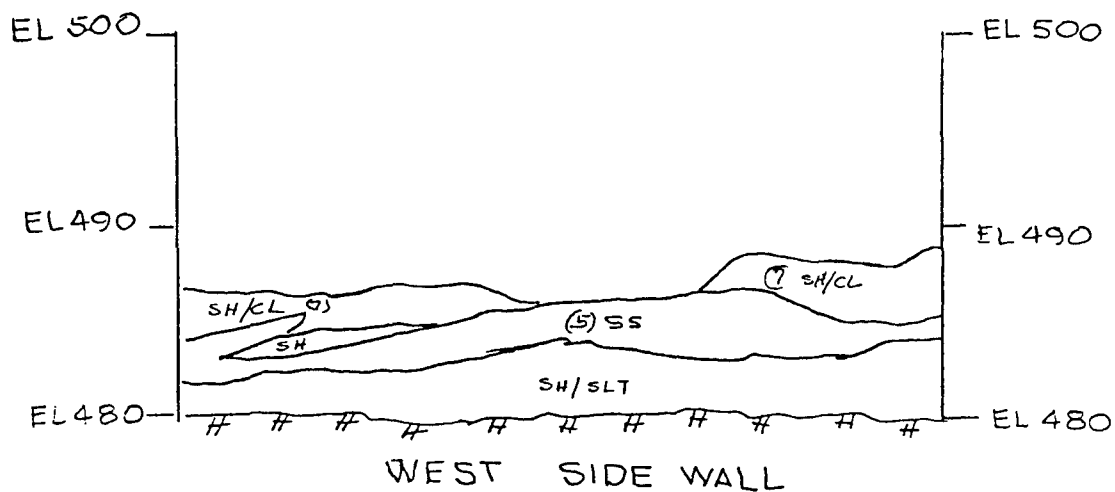
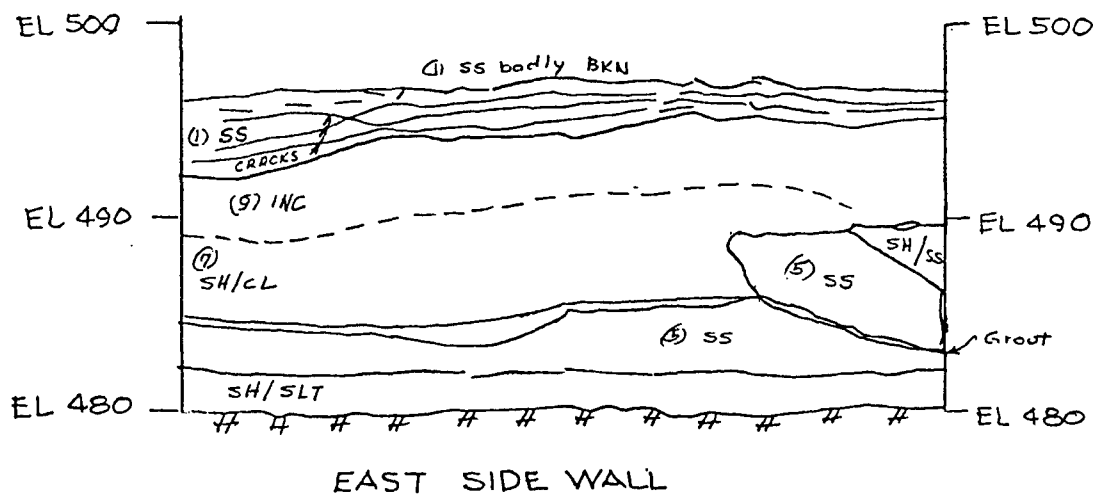
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 16

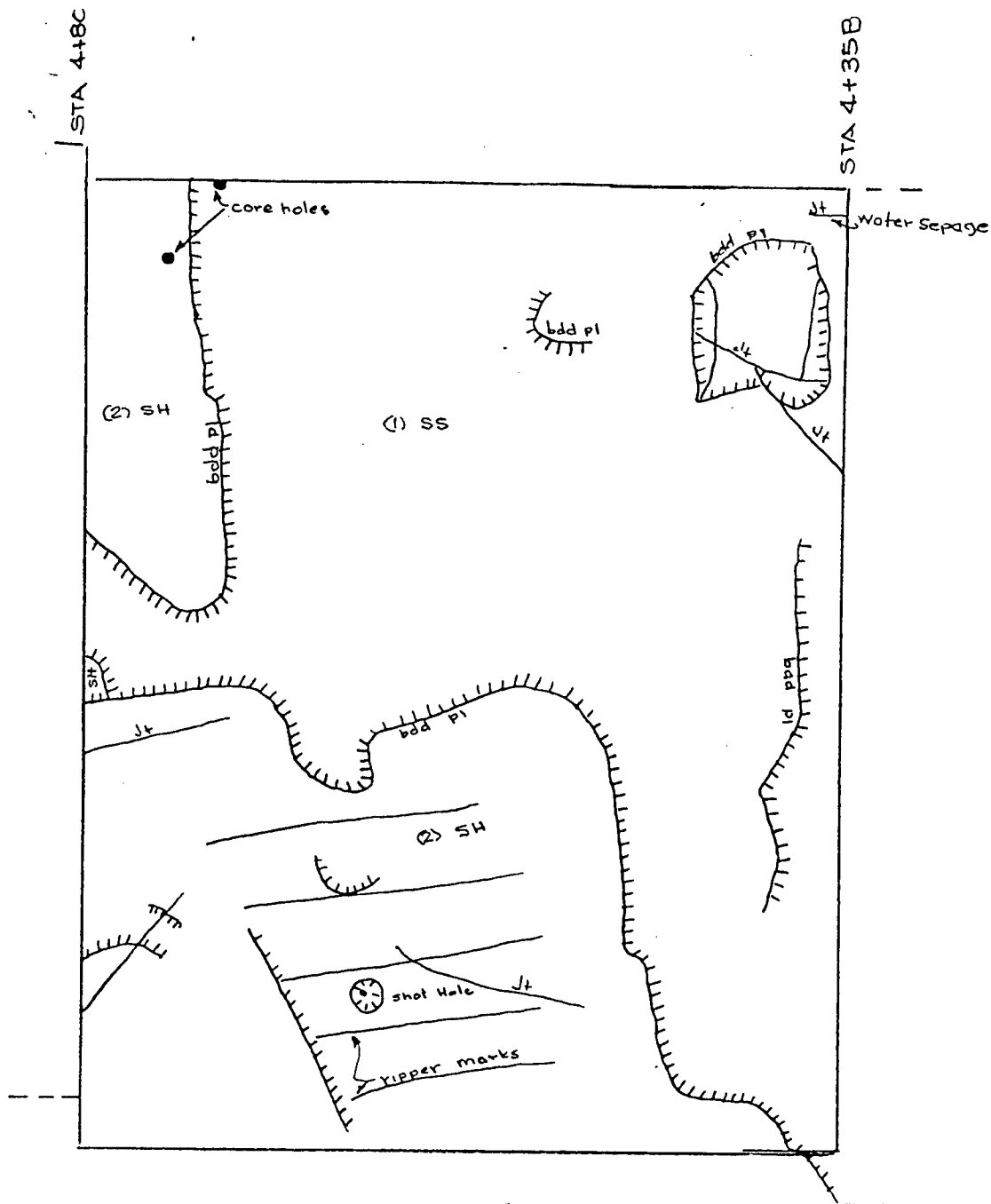


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 16





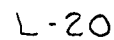


U.S. Army Corps of Engineers

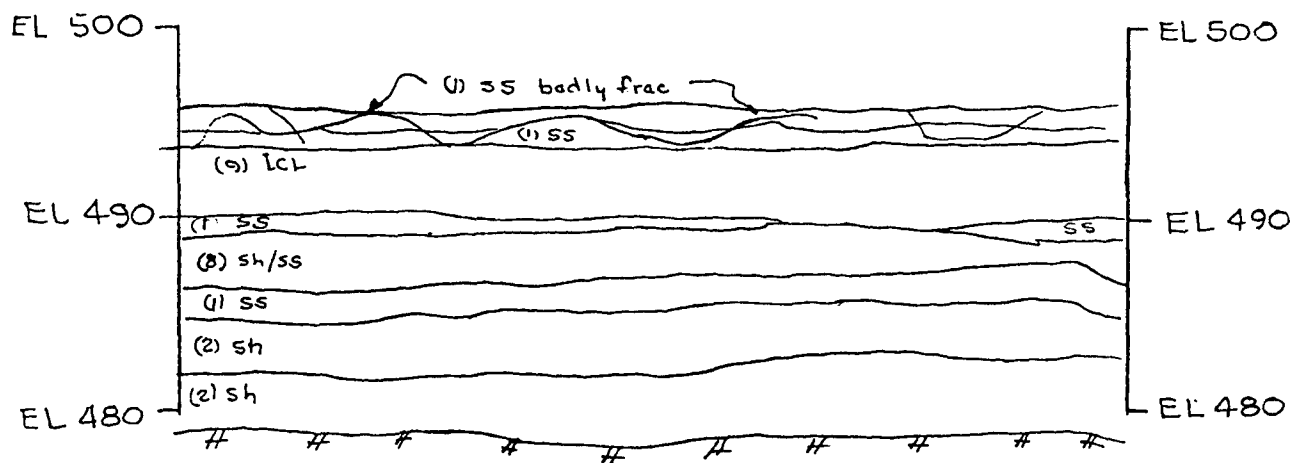
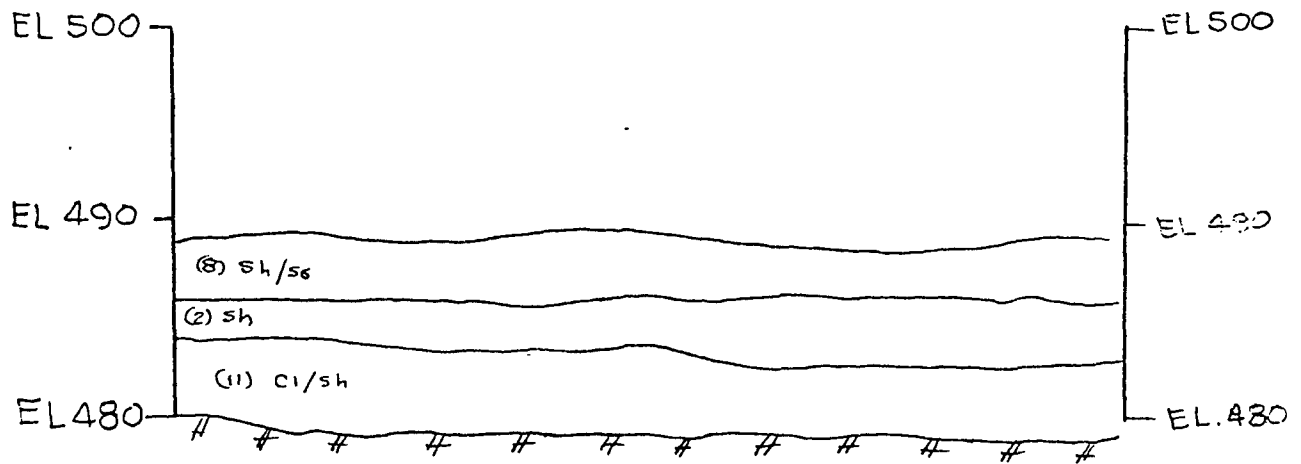
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 18



STA 3+85 B



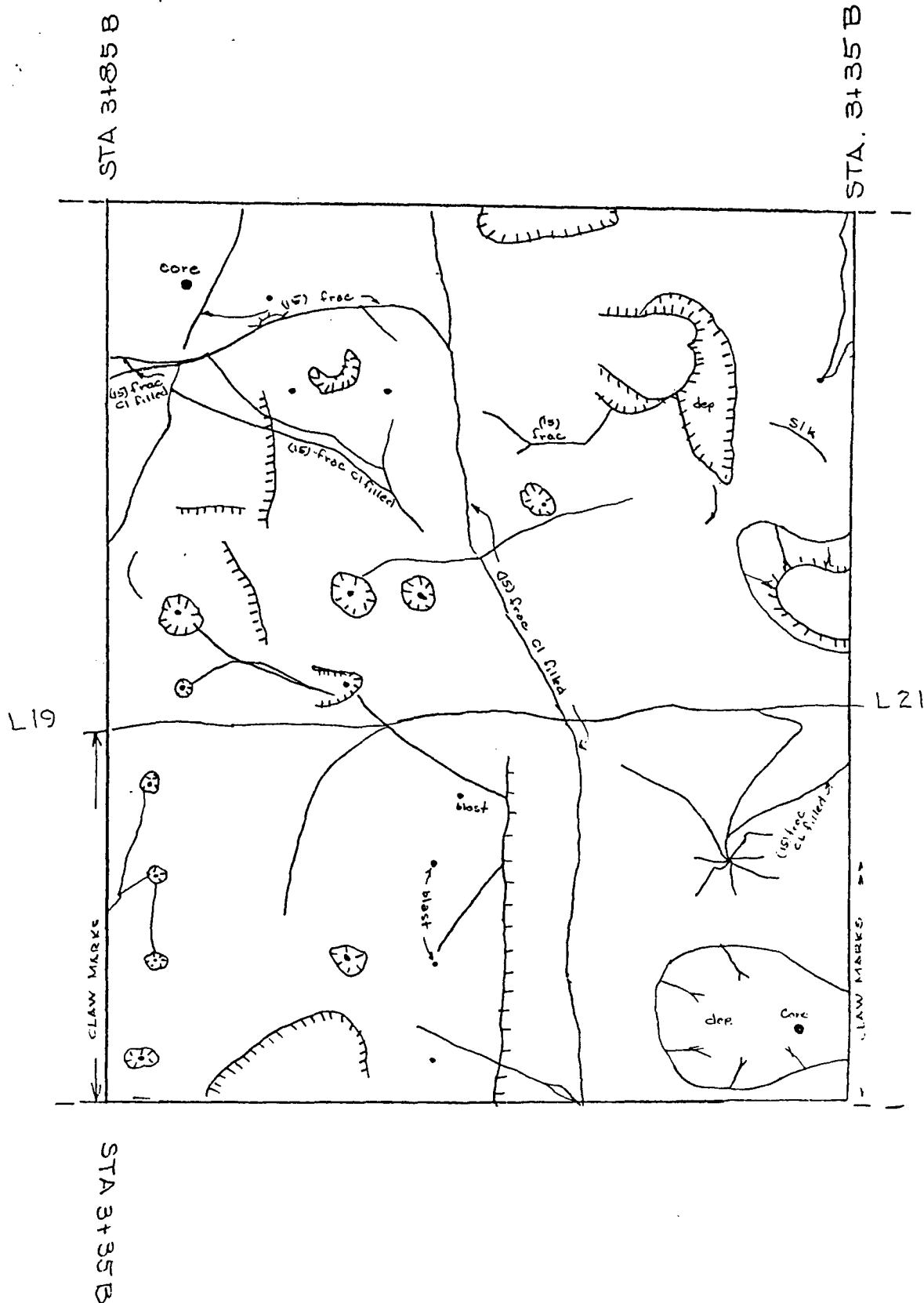
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 19



U.S. Army Corps of Engineers

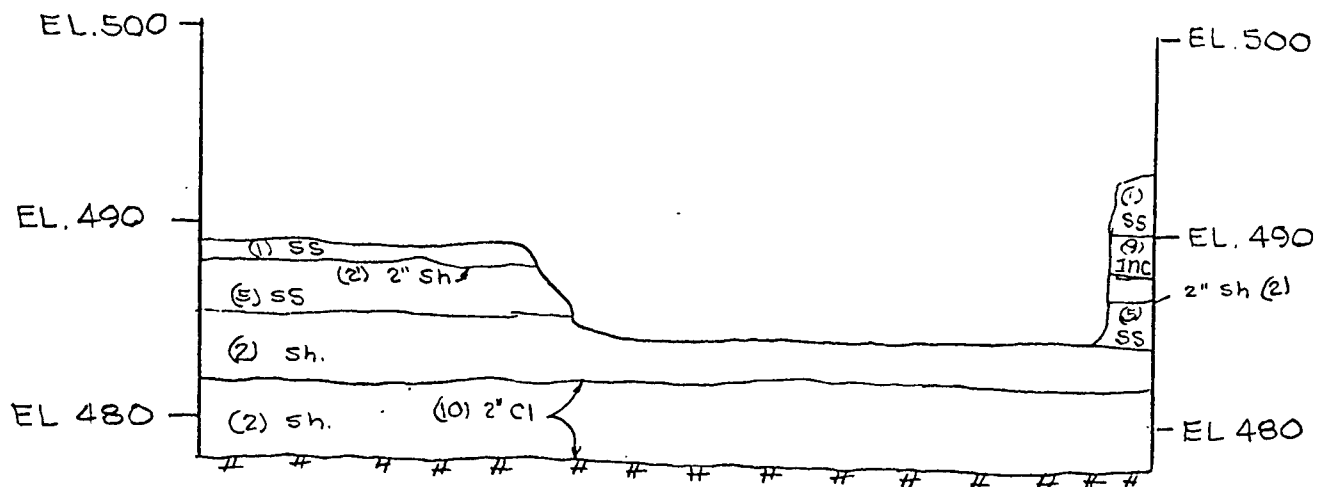
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 19



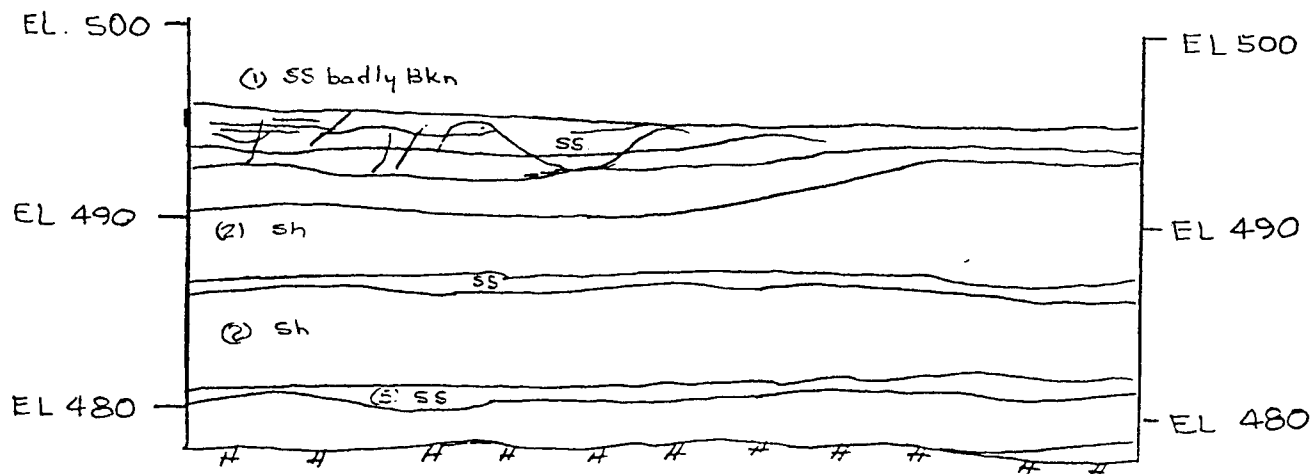


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 20



WEST SIDE WALL



EAST SIDE WALL

U.S. Army Corps of Engineers

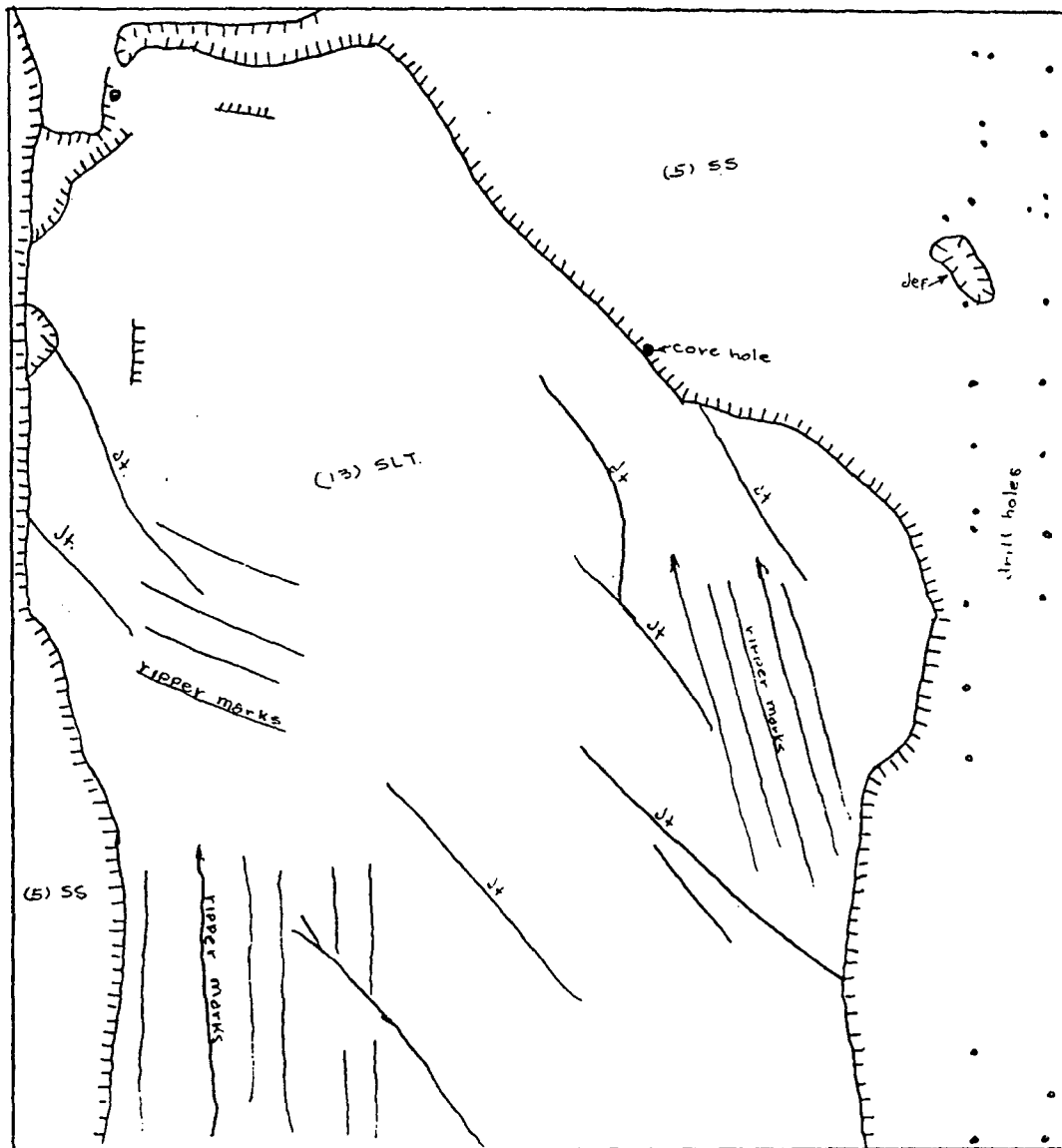
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 20

STA 3+35B

STA 2+79B

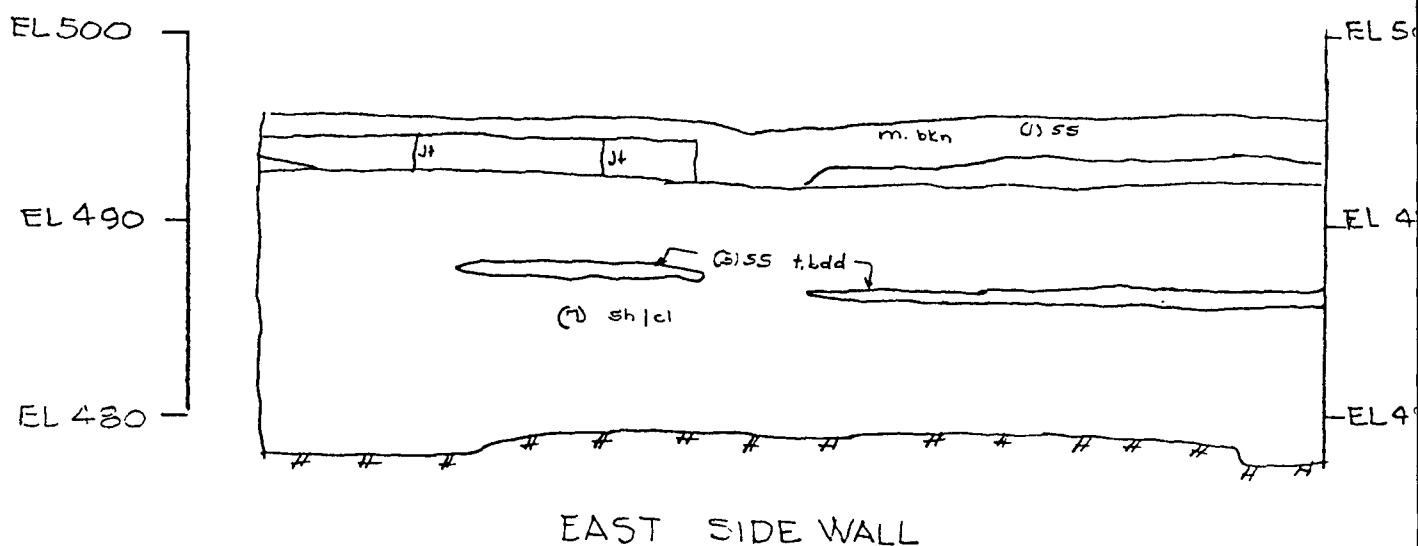
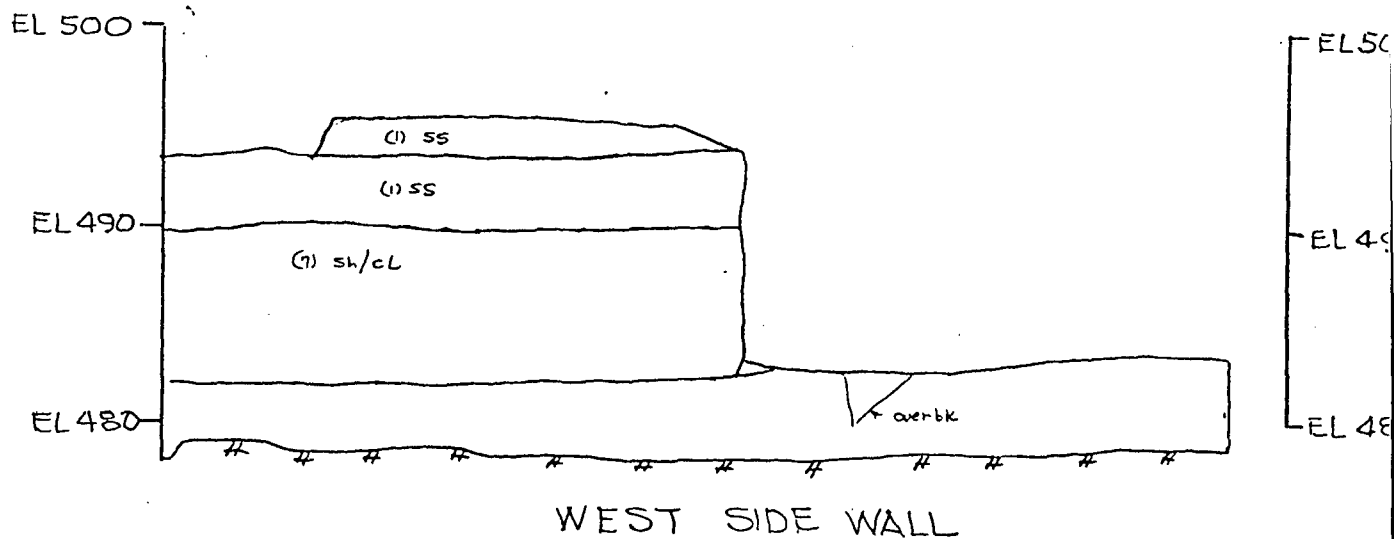
L-20

L-20



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 21



U.S. Army Corps of Engineers

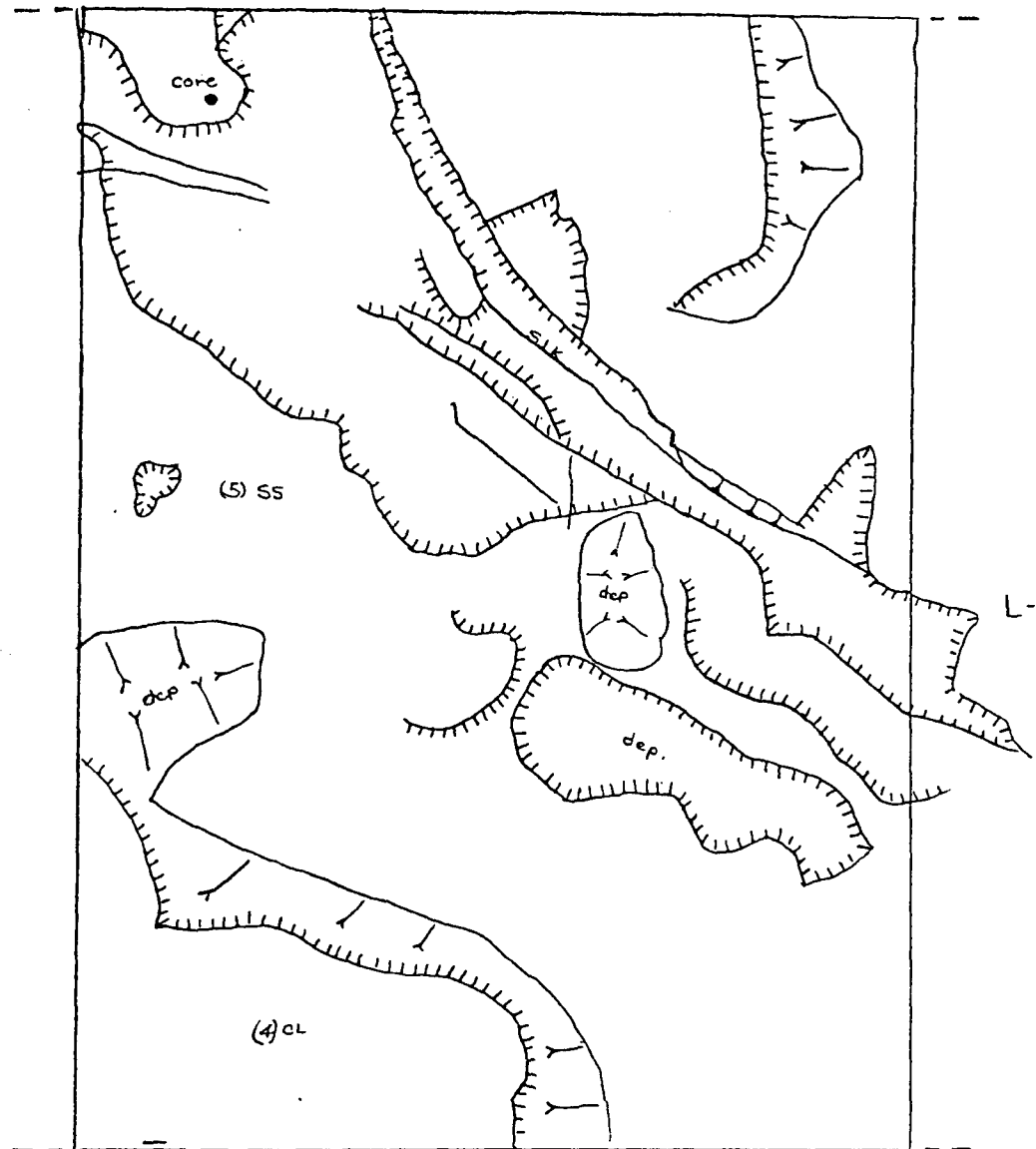
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 21

STA 2+79 B

STA. 2+35 B

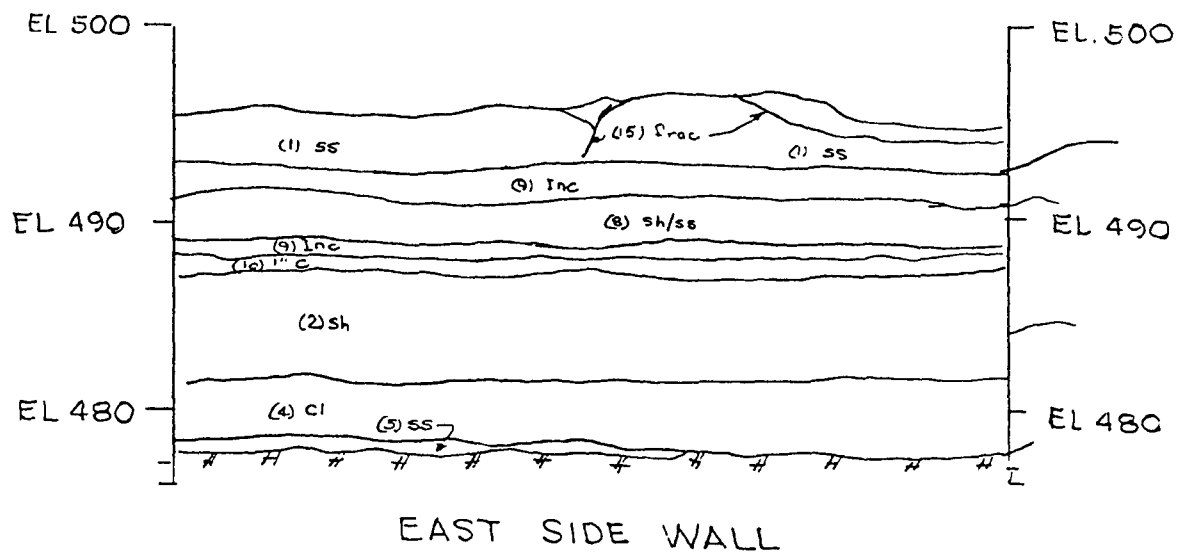
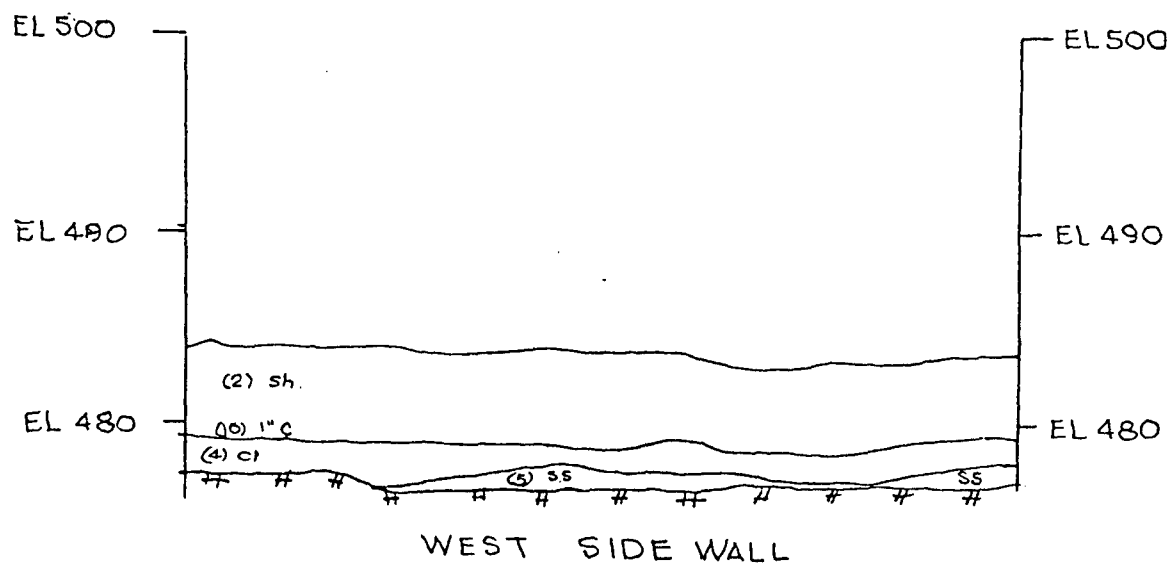
L-21

L-23



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 22



U.S. Army Corps of Engineers

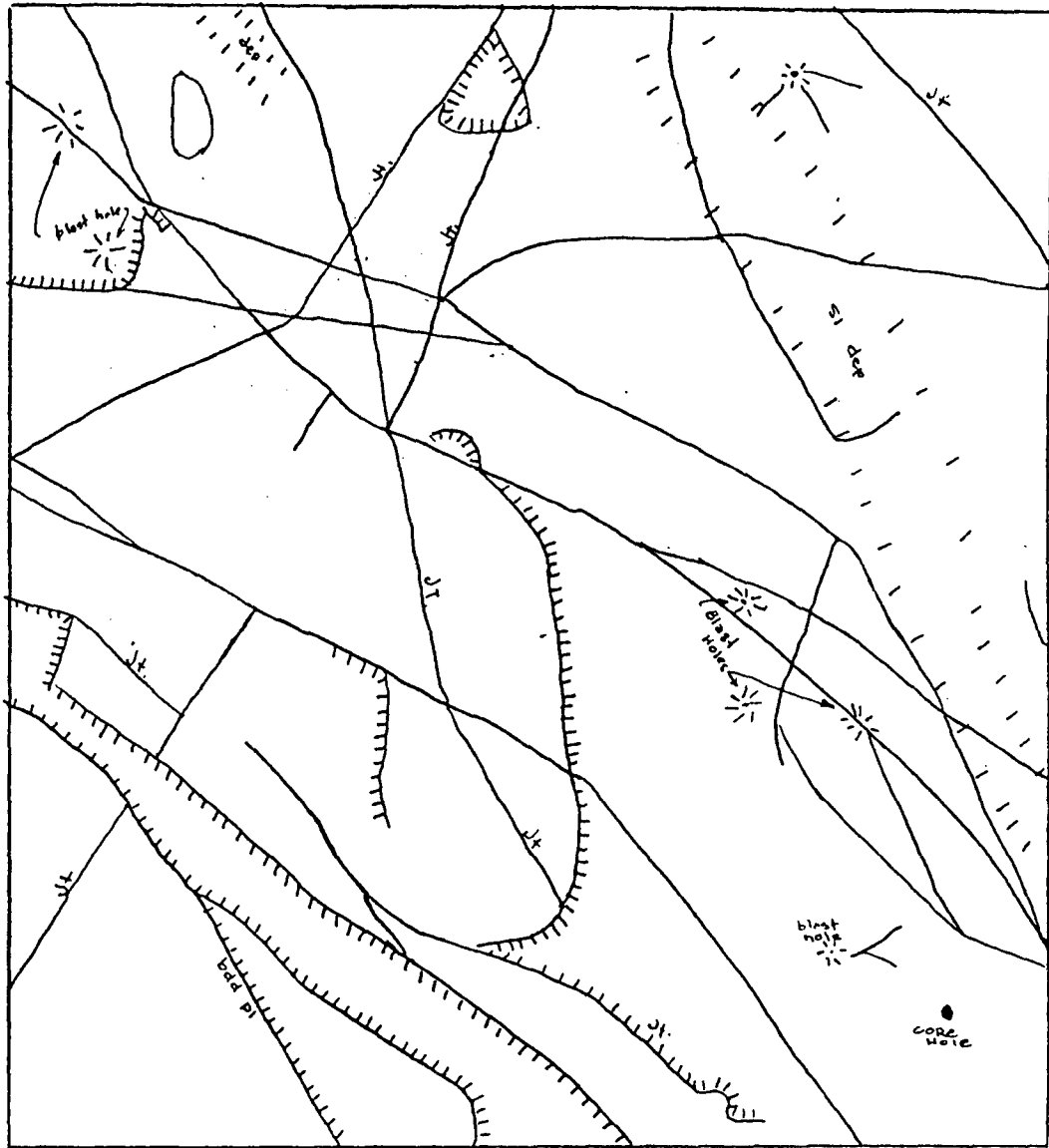
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 22

STA 2+350

STA 1+800

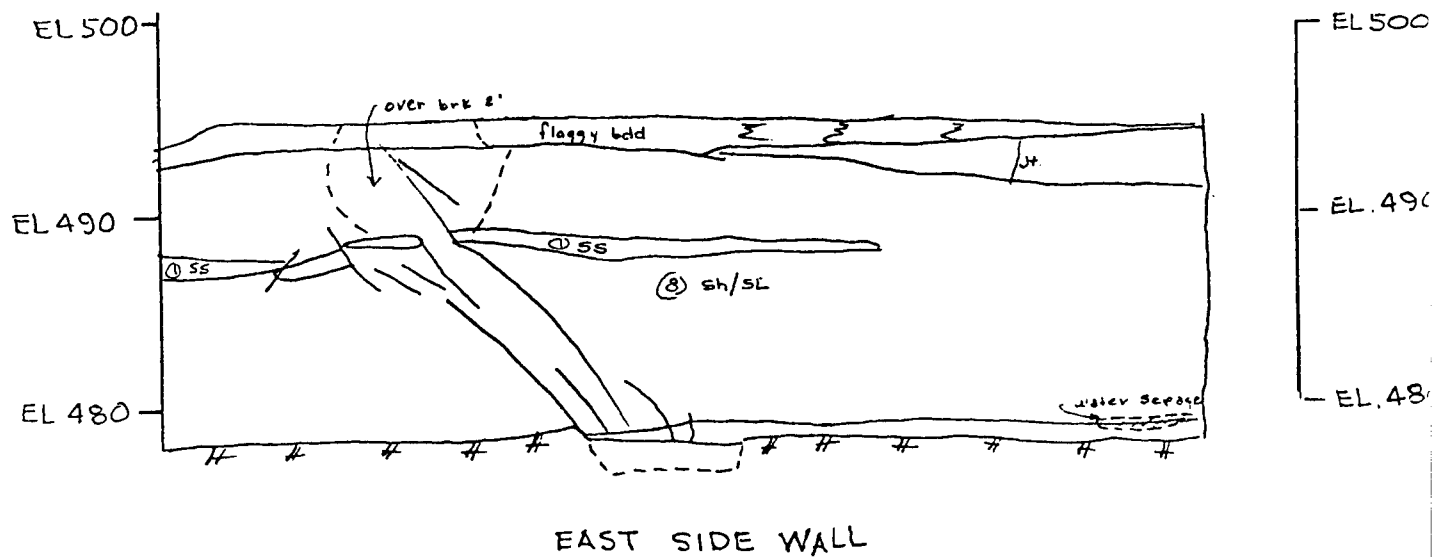
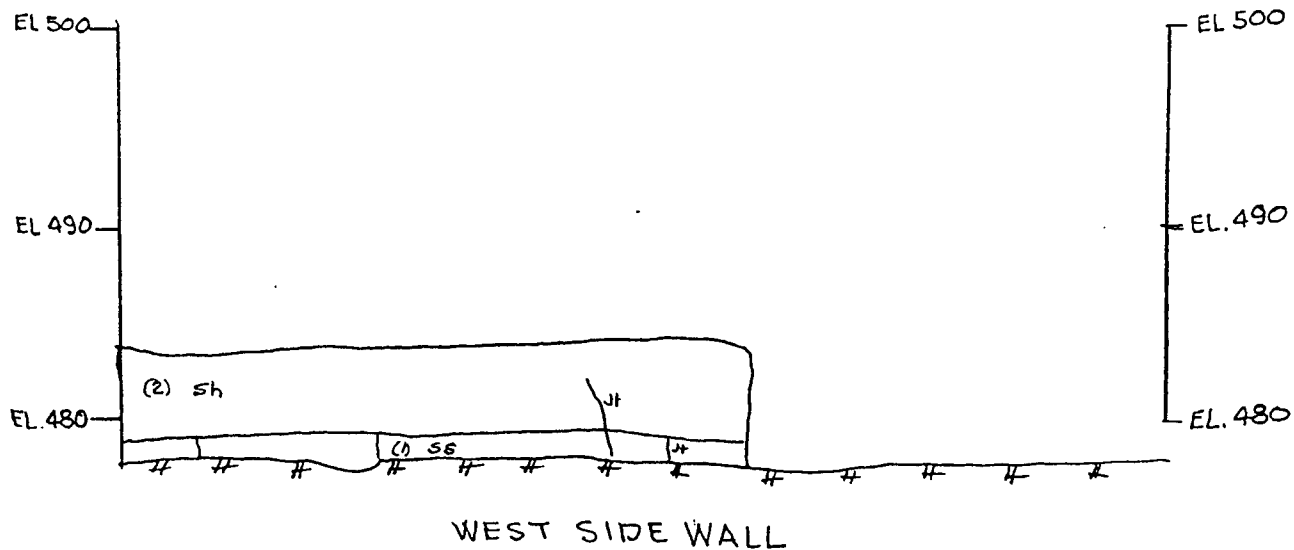
L-22

L-24



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 23



U.S. Army Corps of Engineers

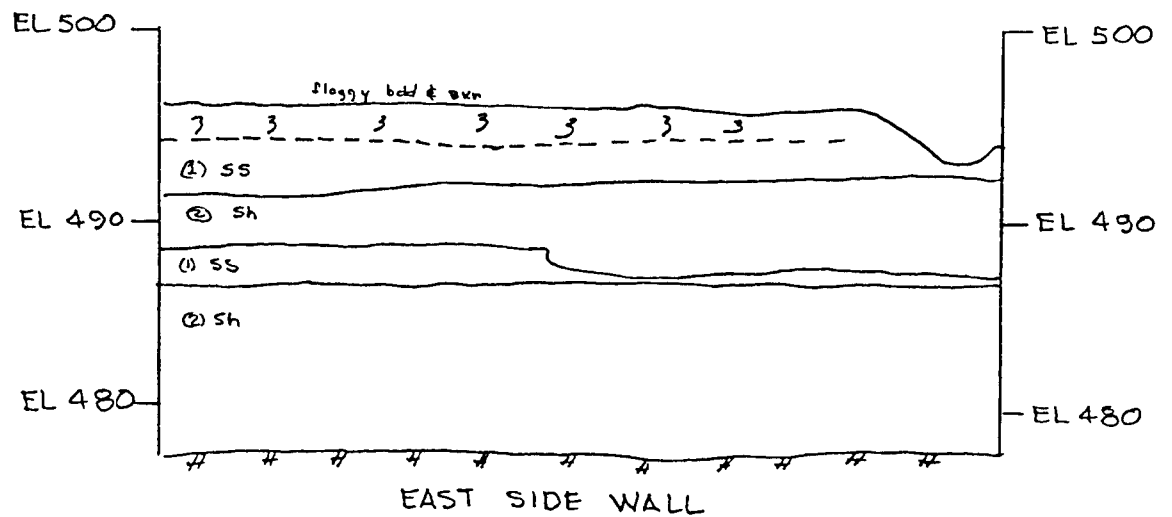
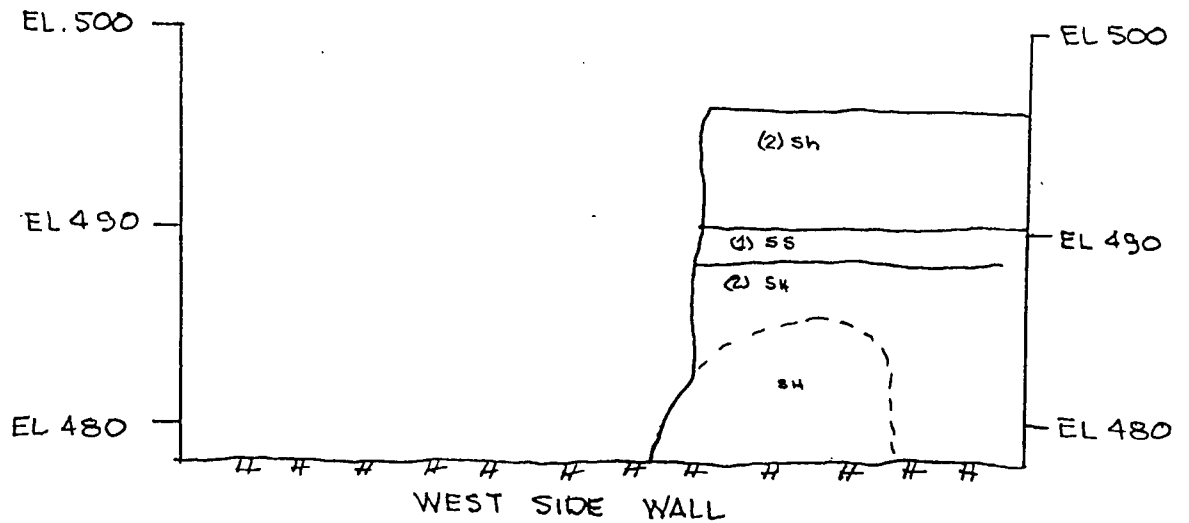
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 23



STA 1435 P



Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 24



U.S. Army Corps of Engineers

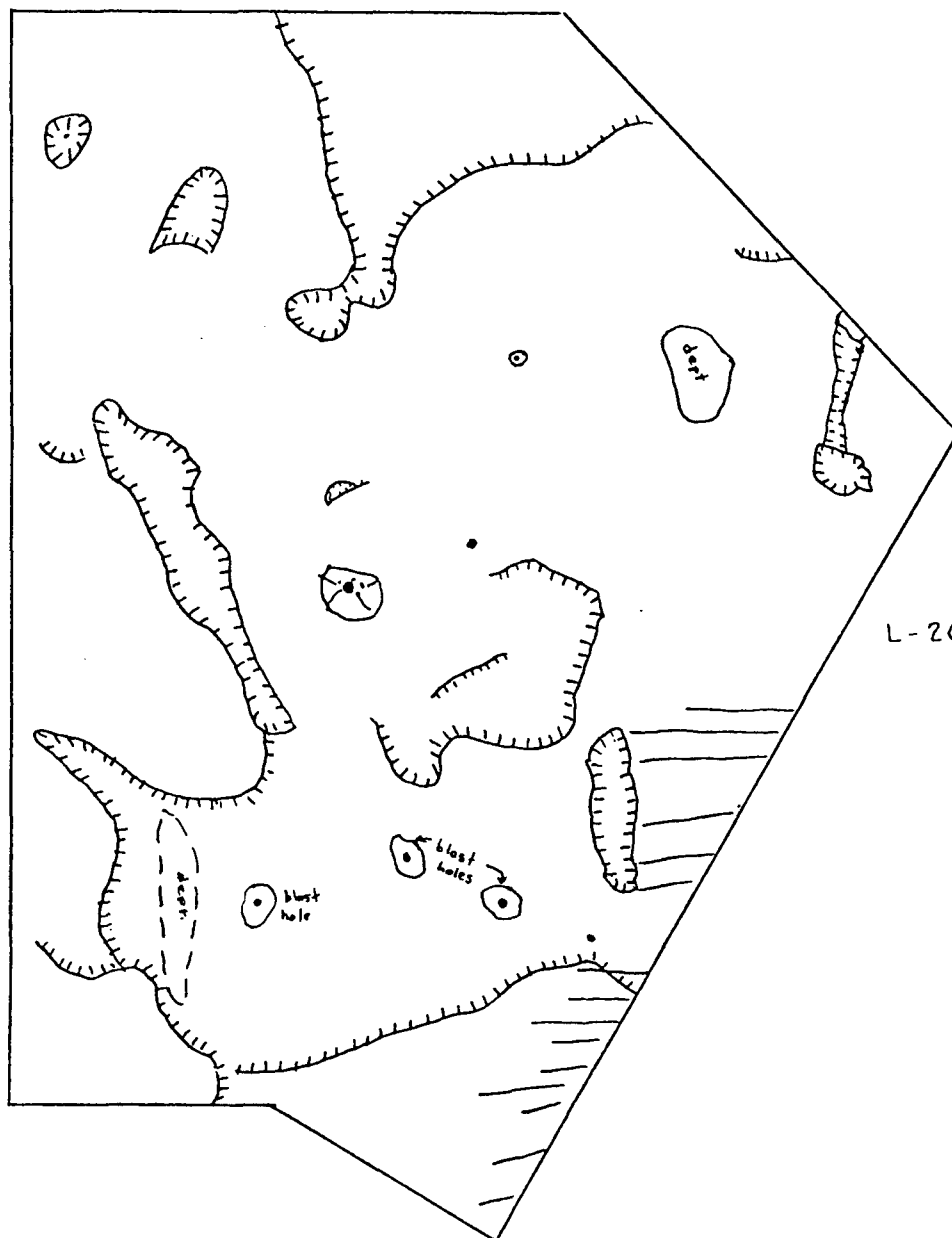
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 24

STA 1+35.8

STA 1+05.75

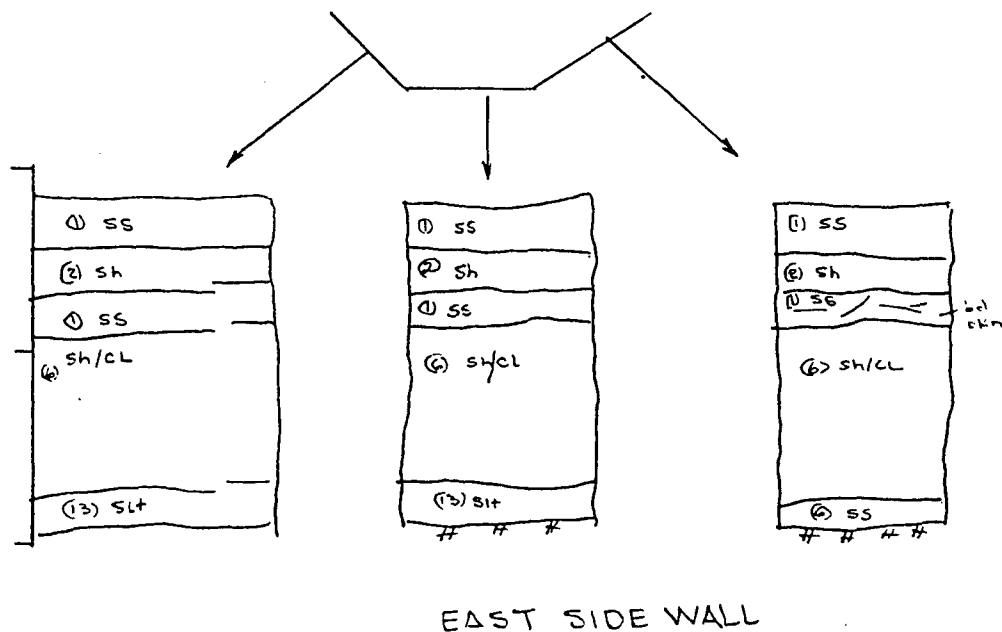
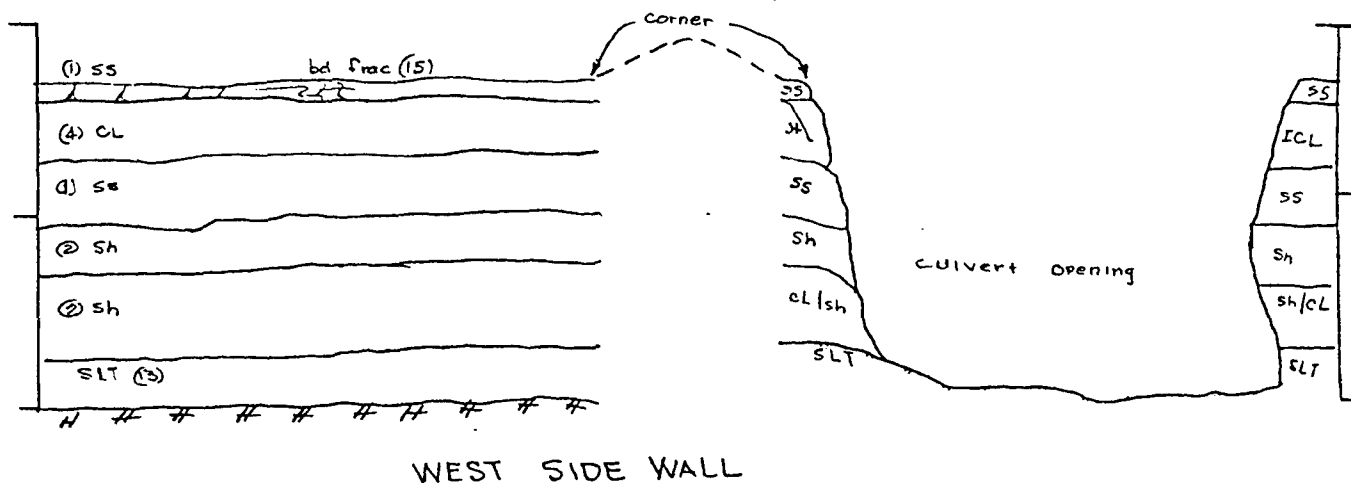
L-24

L-26



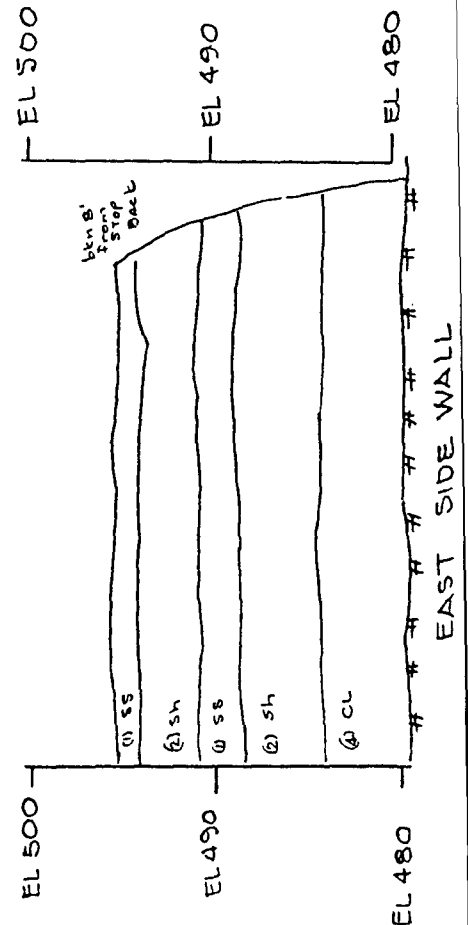
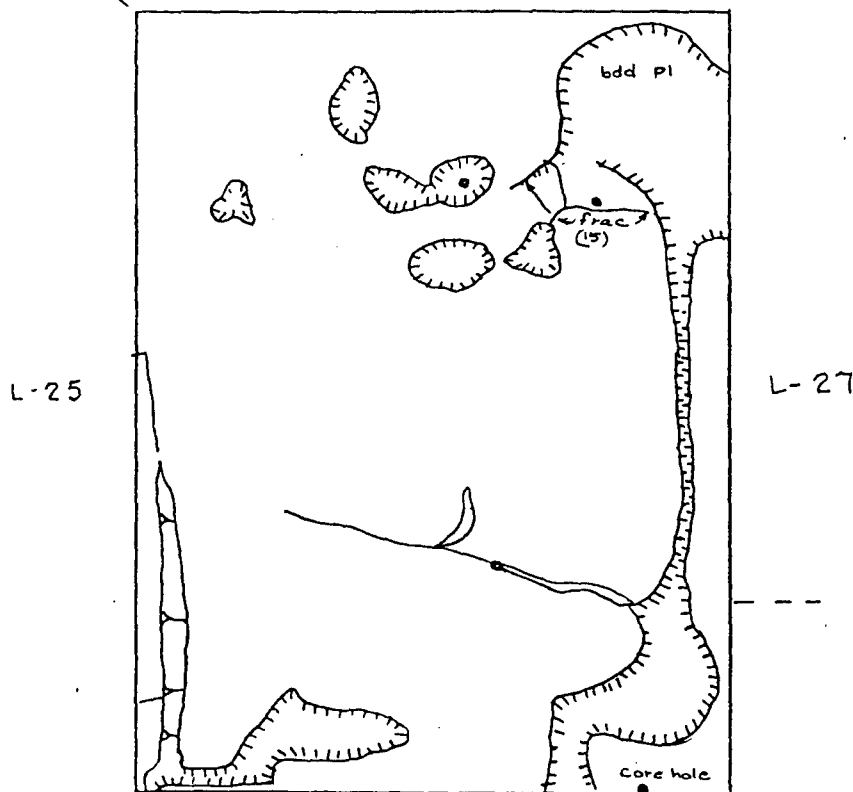
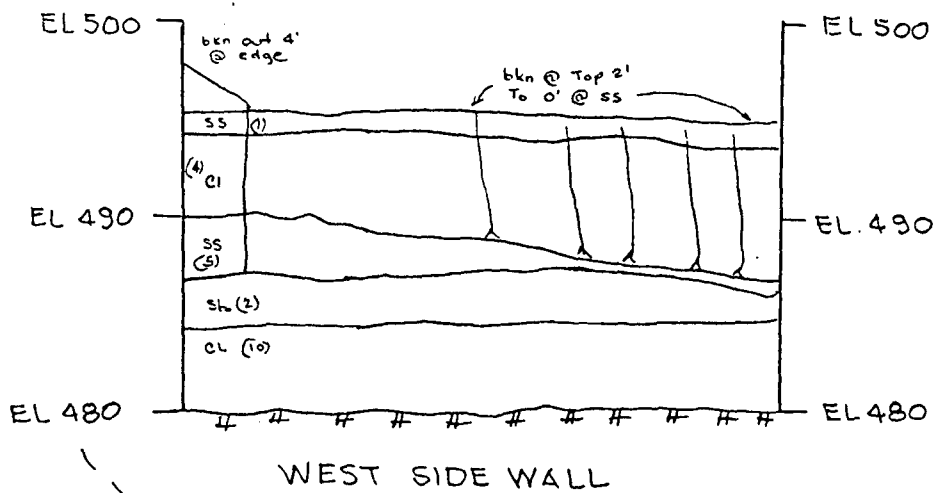
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 25



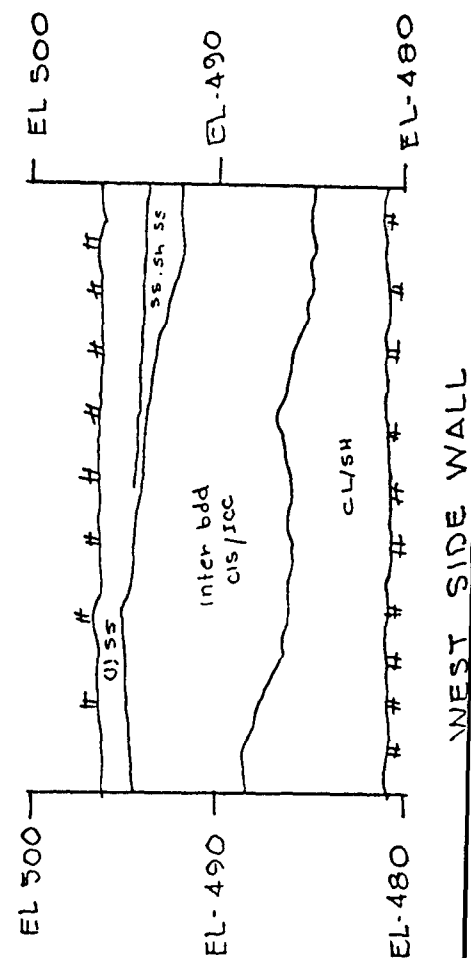
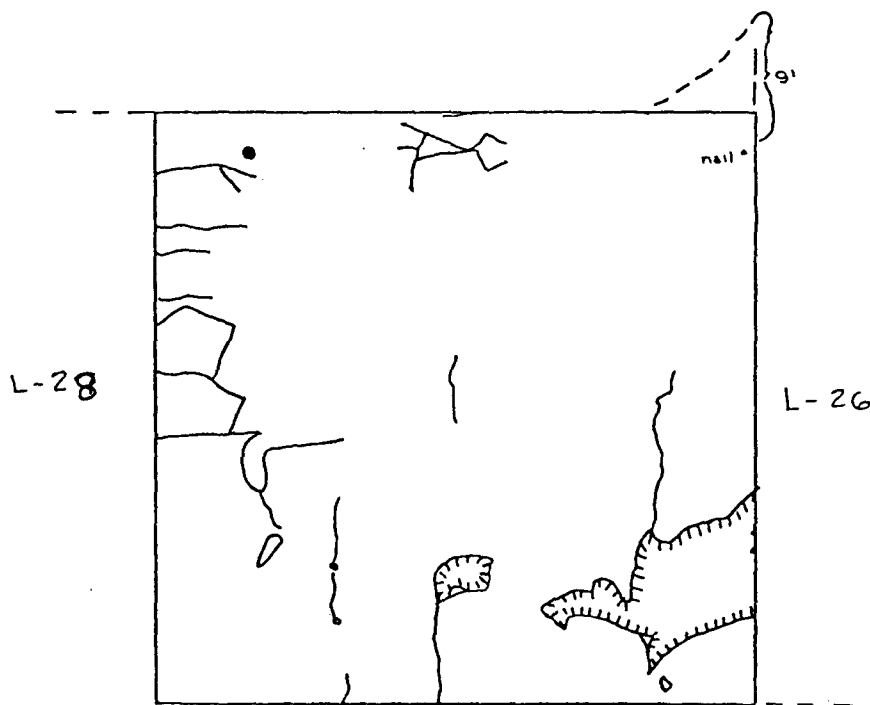
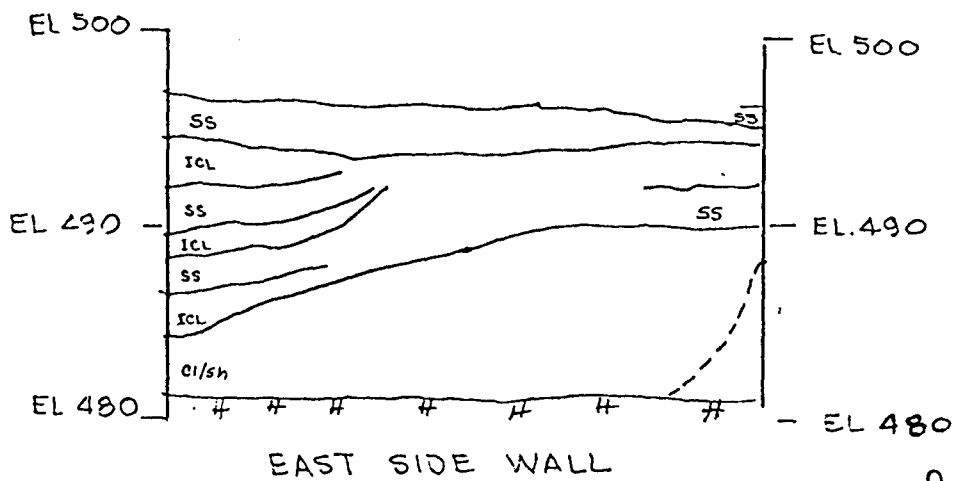
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Wall Monolith 25



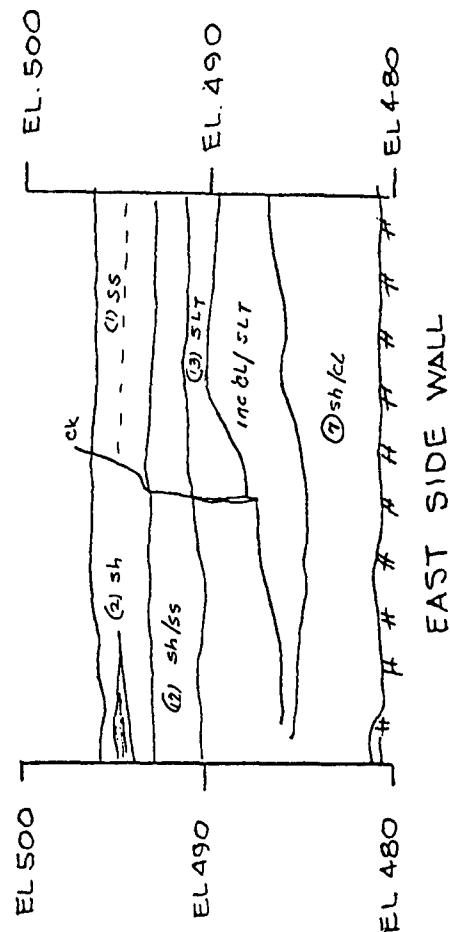
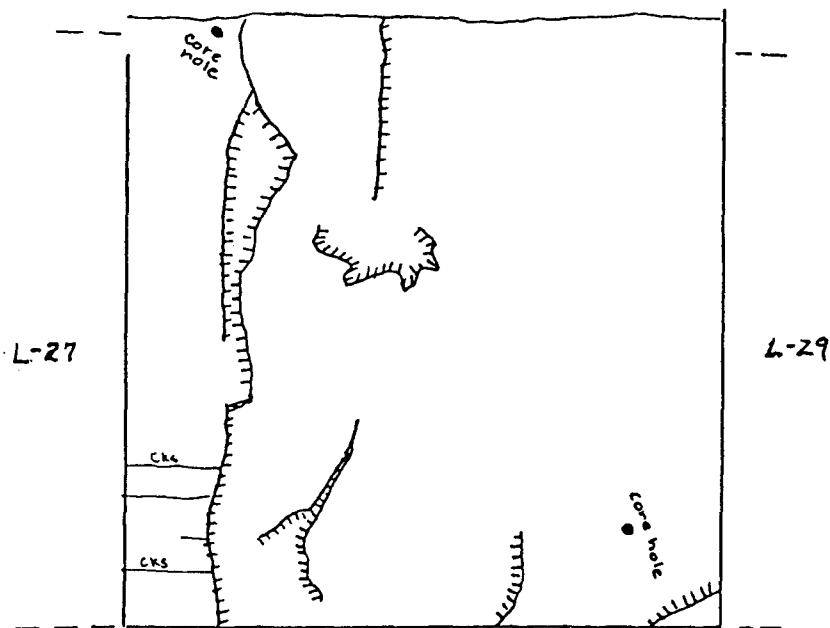
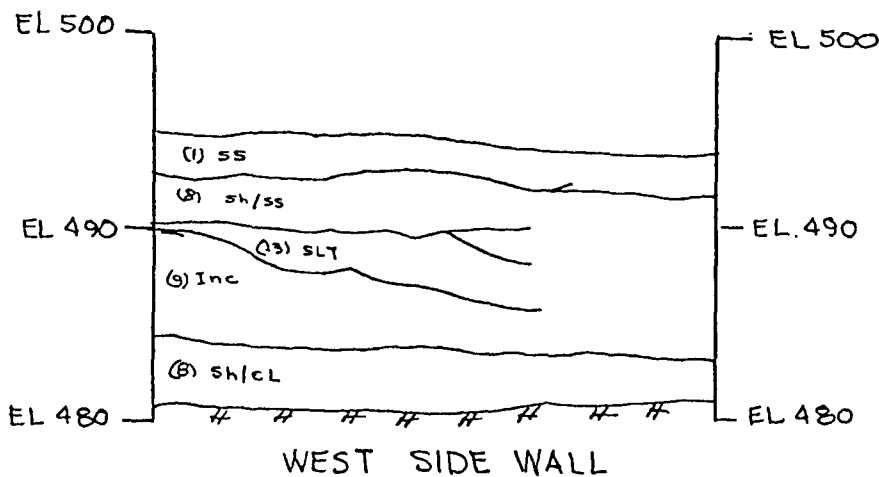
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 26



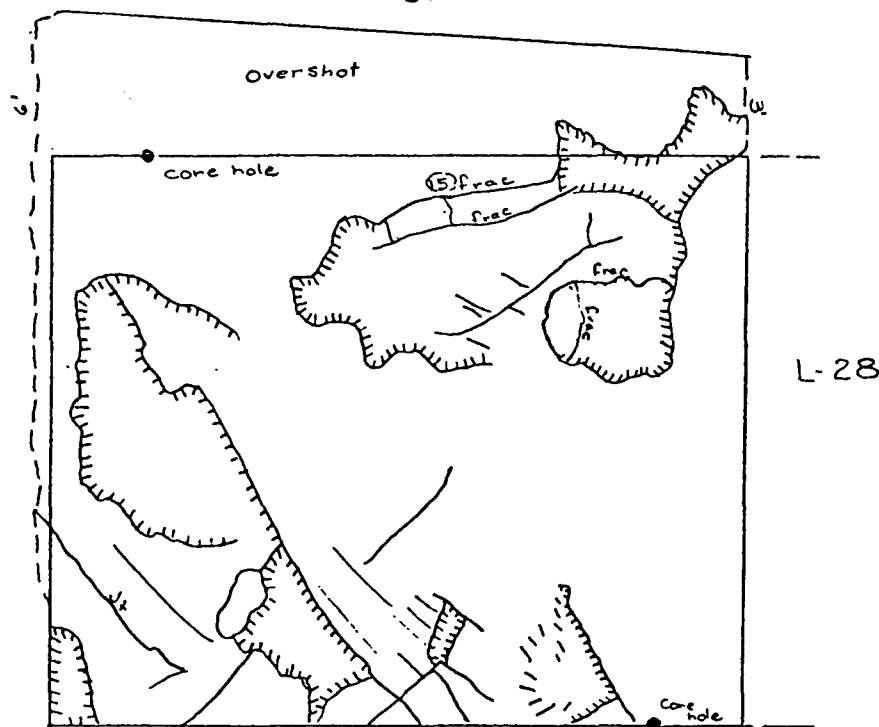
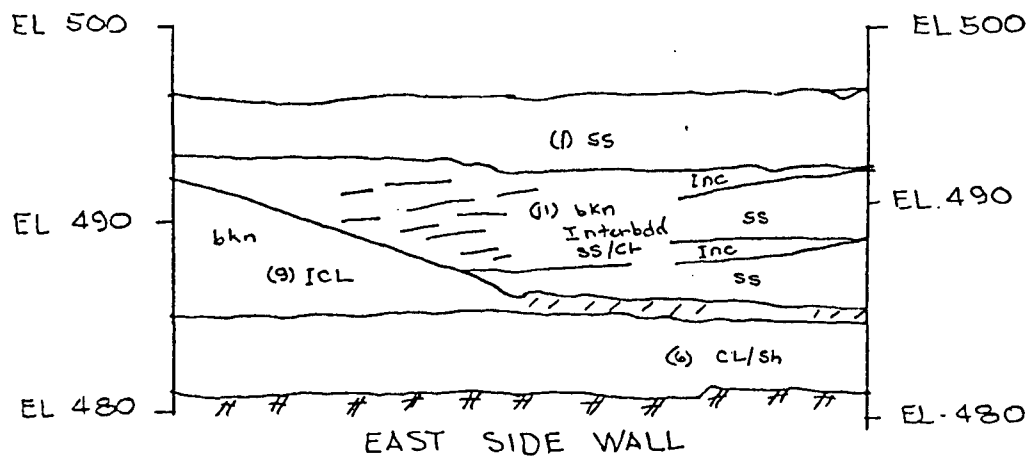
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 27



U.S. Army Corps of Engineers

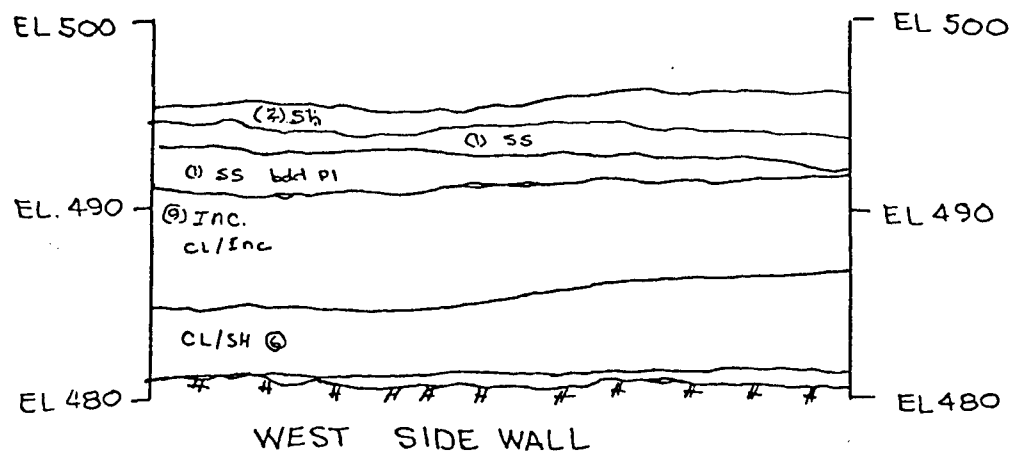
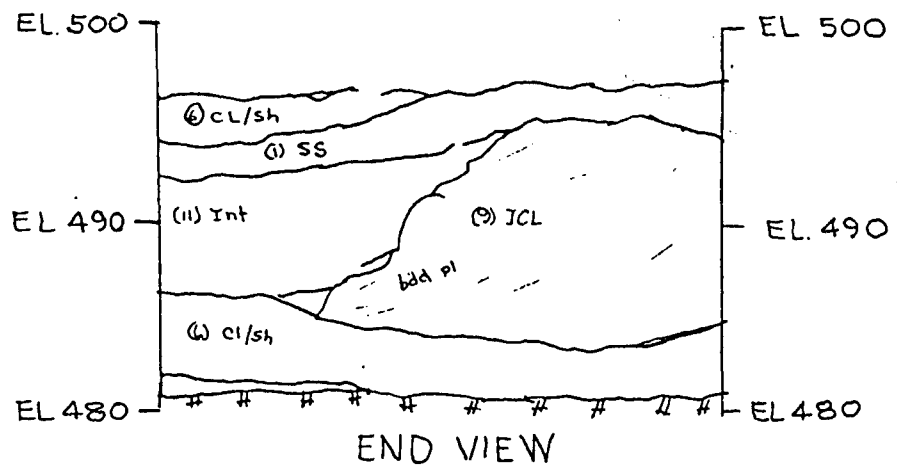
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 28



U.S. Army Corps of Engineers

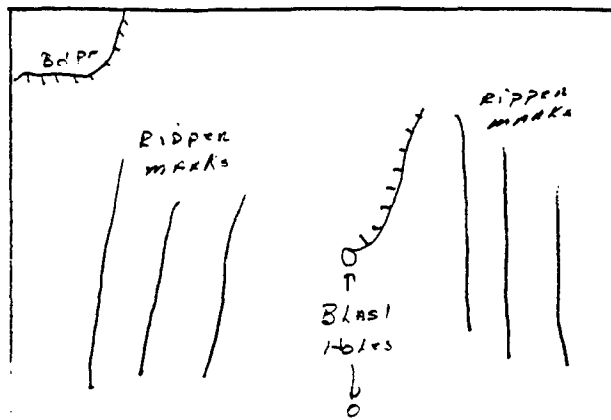
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 29



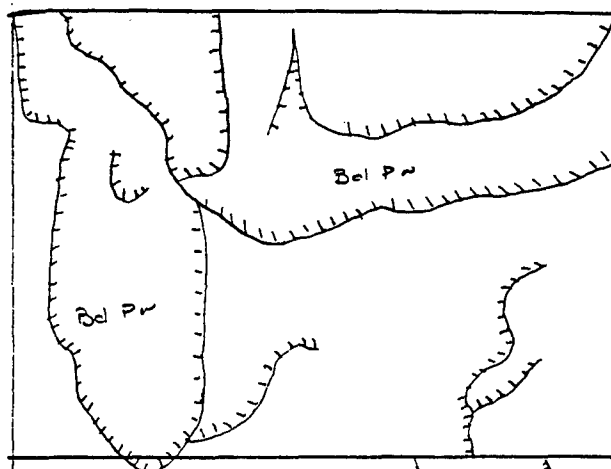


U.S. Army Corps of Engineers

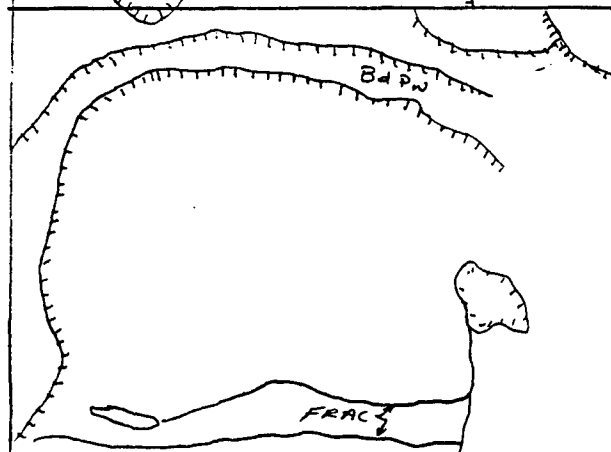
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Wall Monolith 29



RC-13



RC-14

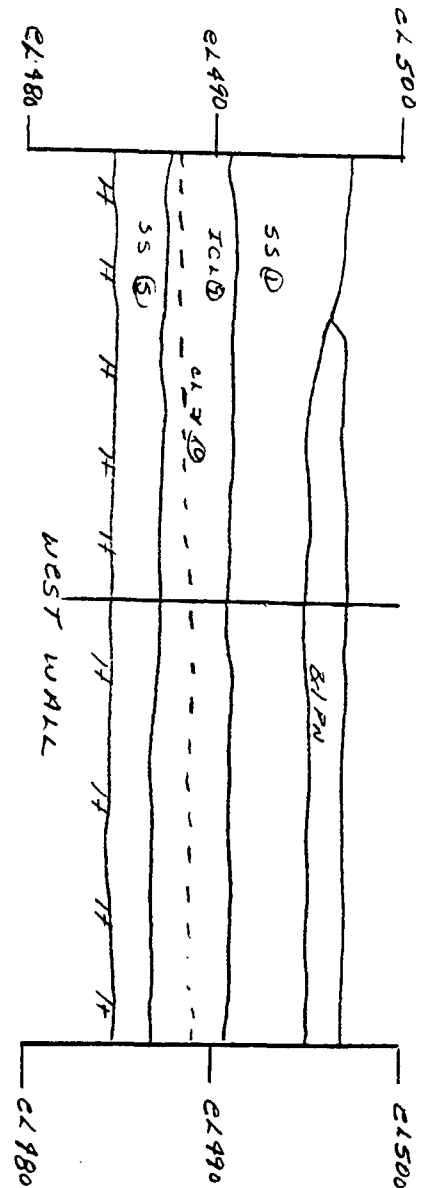
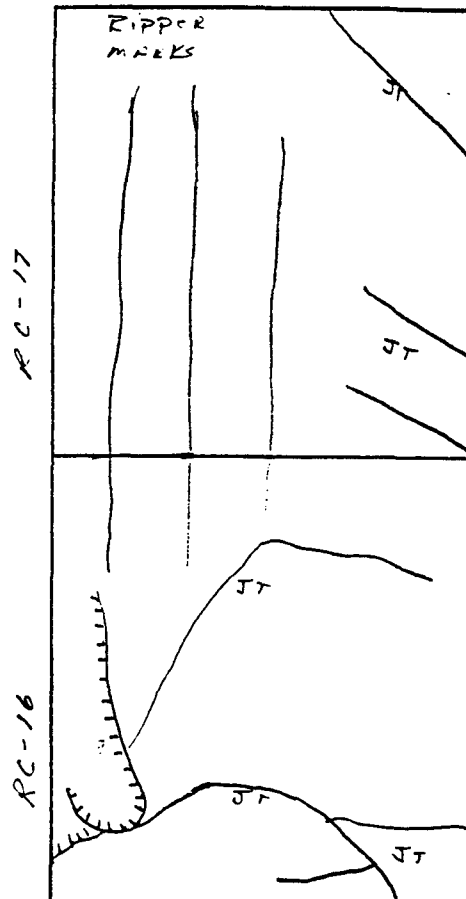
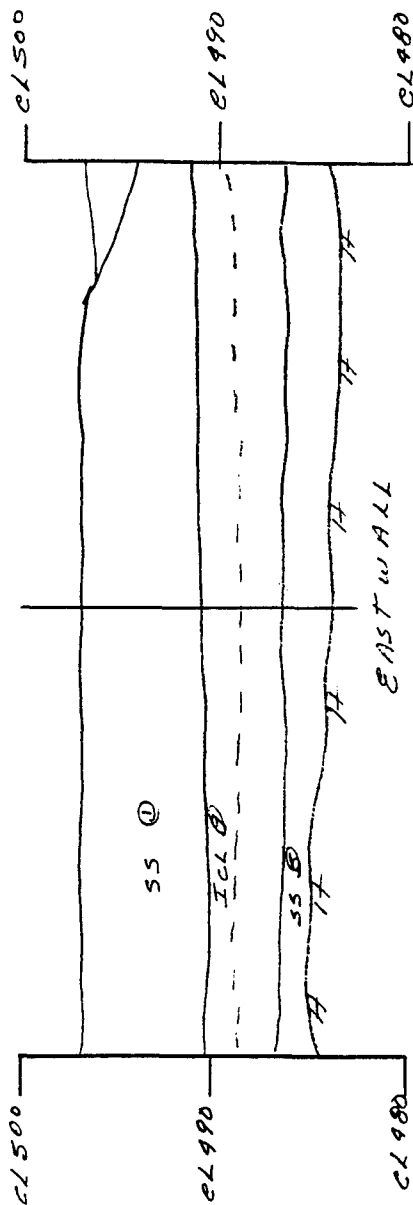


RC-15

U.S. Army Corps of Engineers

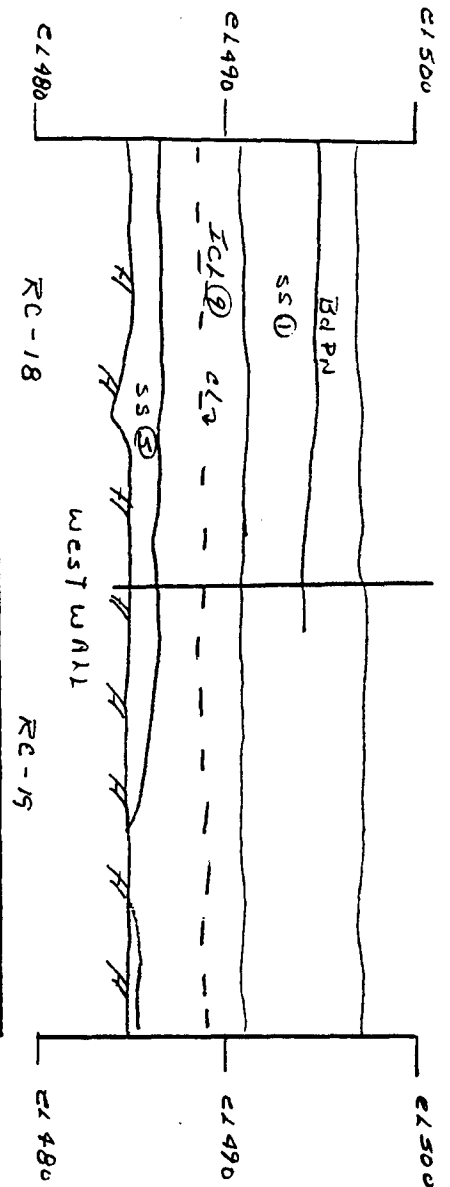
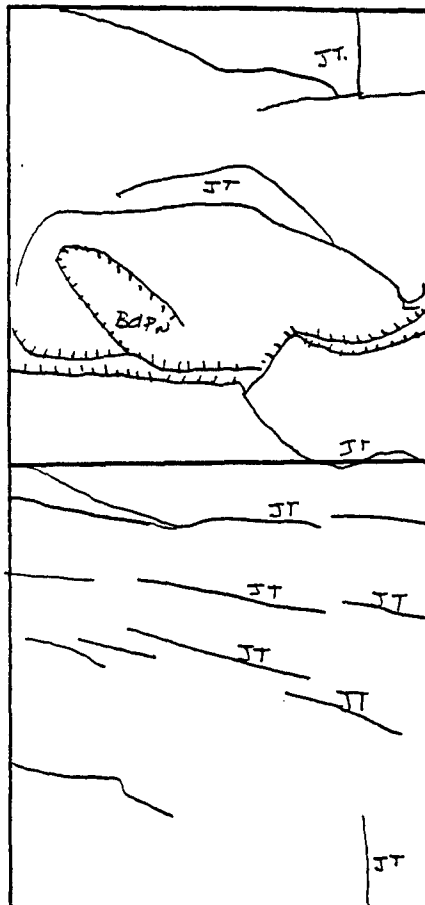
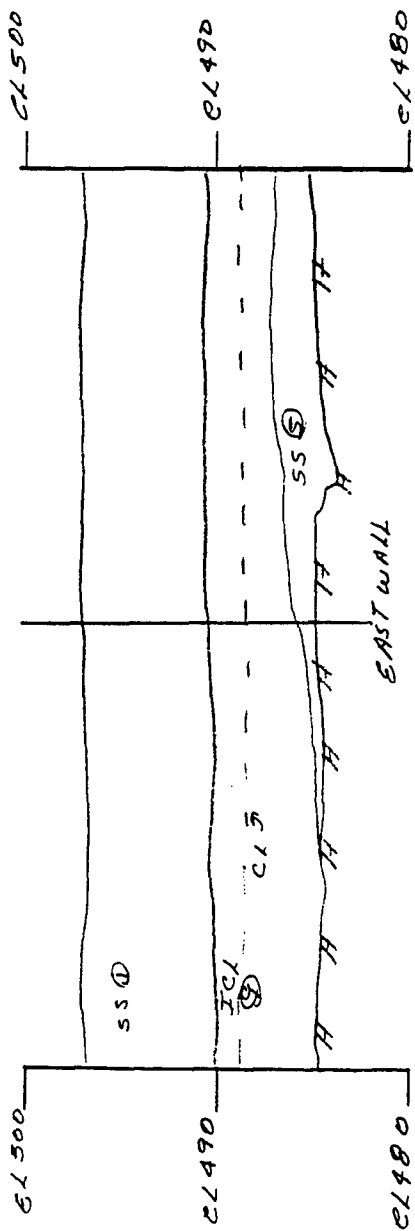
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Conduit 13,14,15





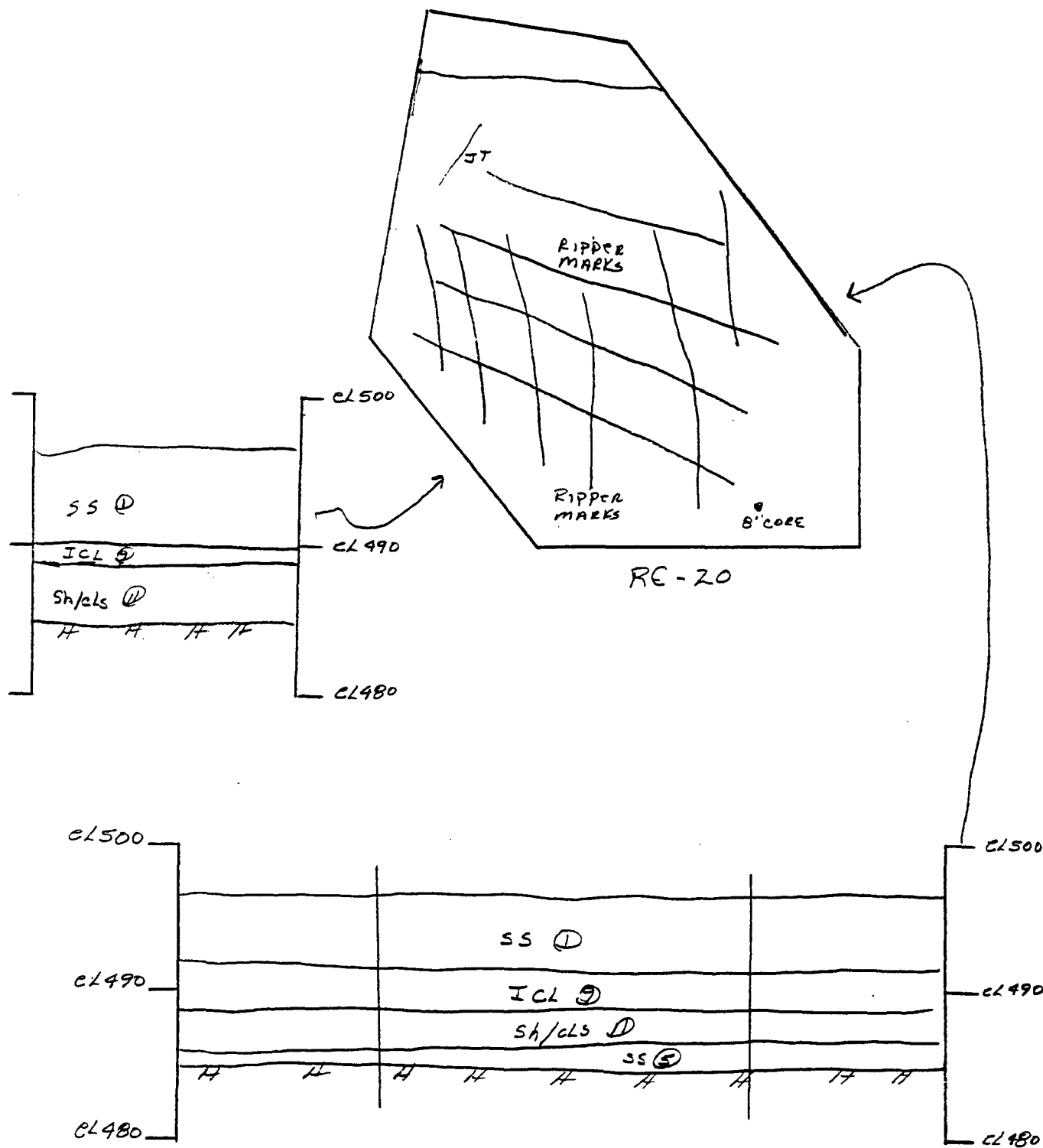
U.S. Army Corps of Engineers

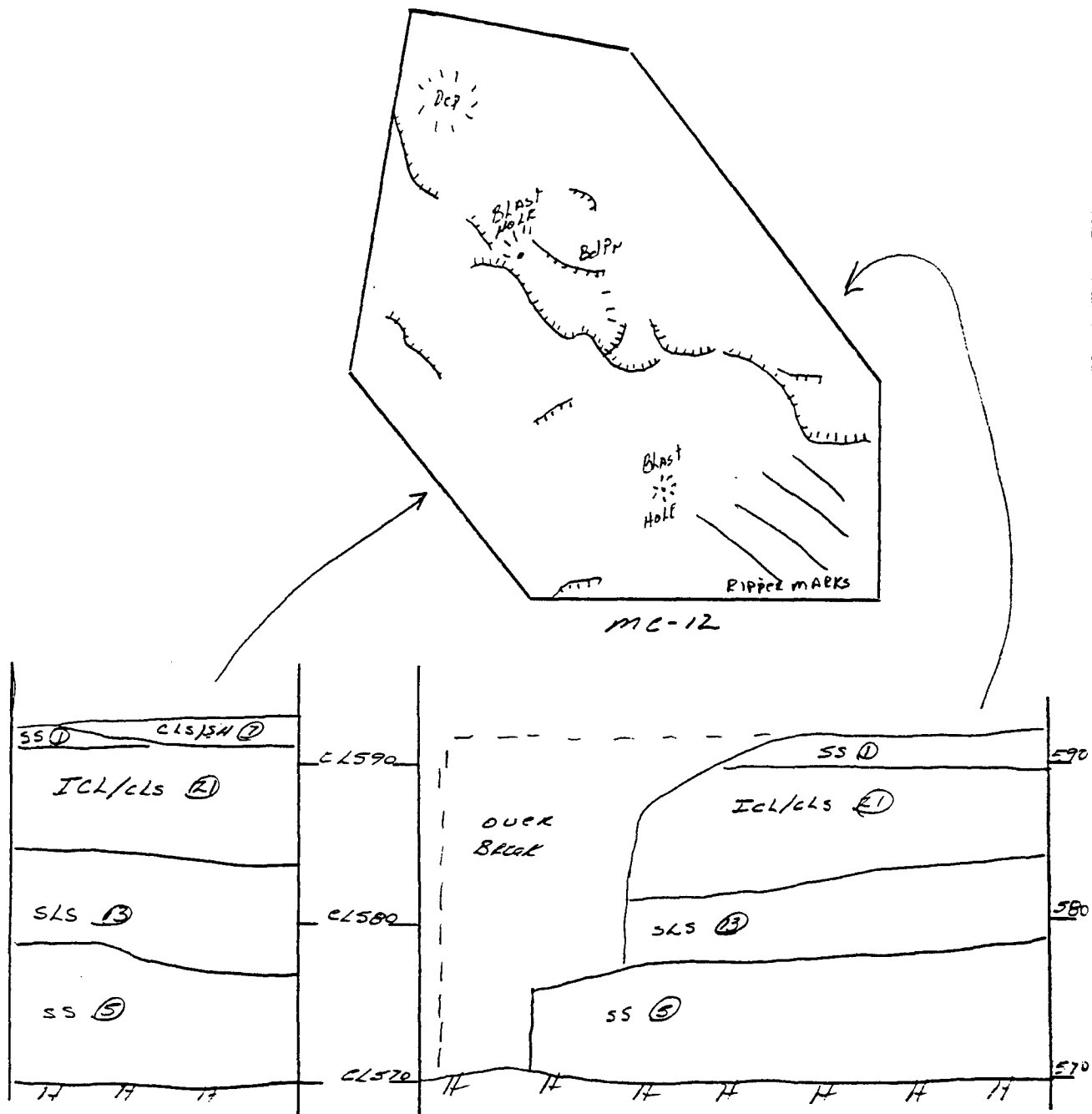
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
River Conduit 16,17

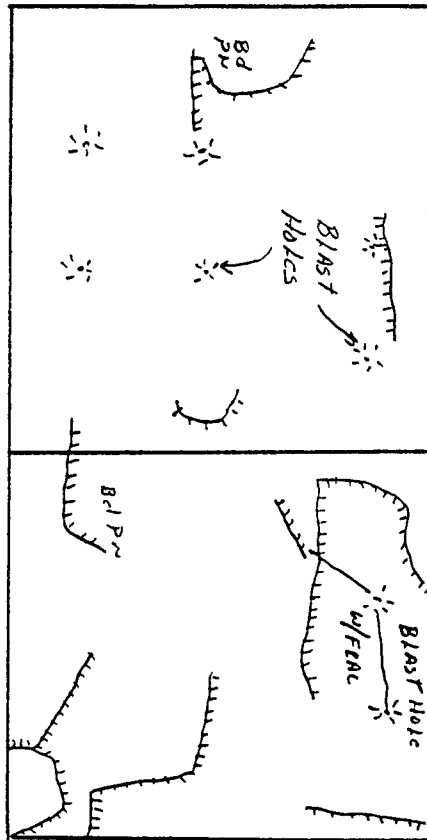
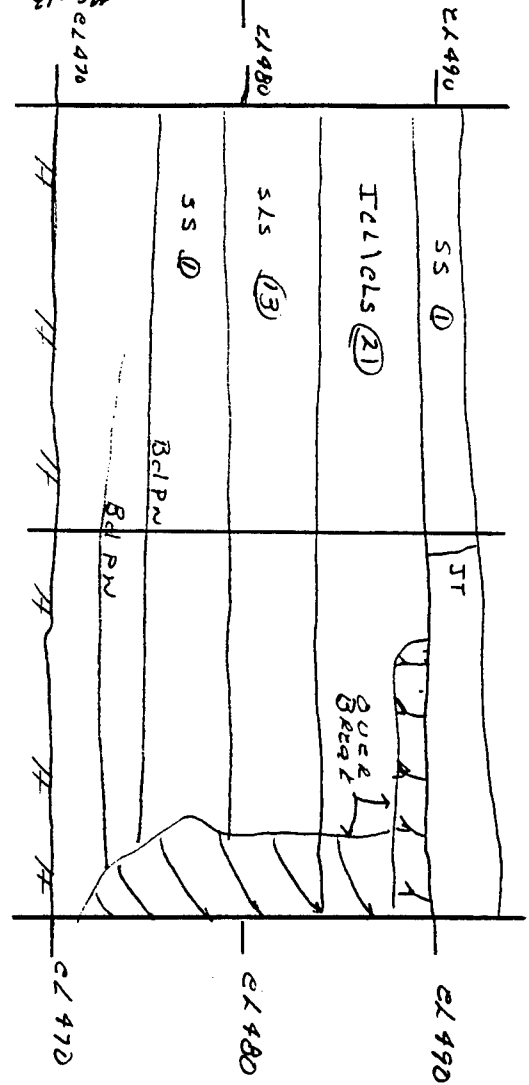
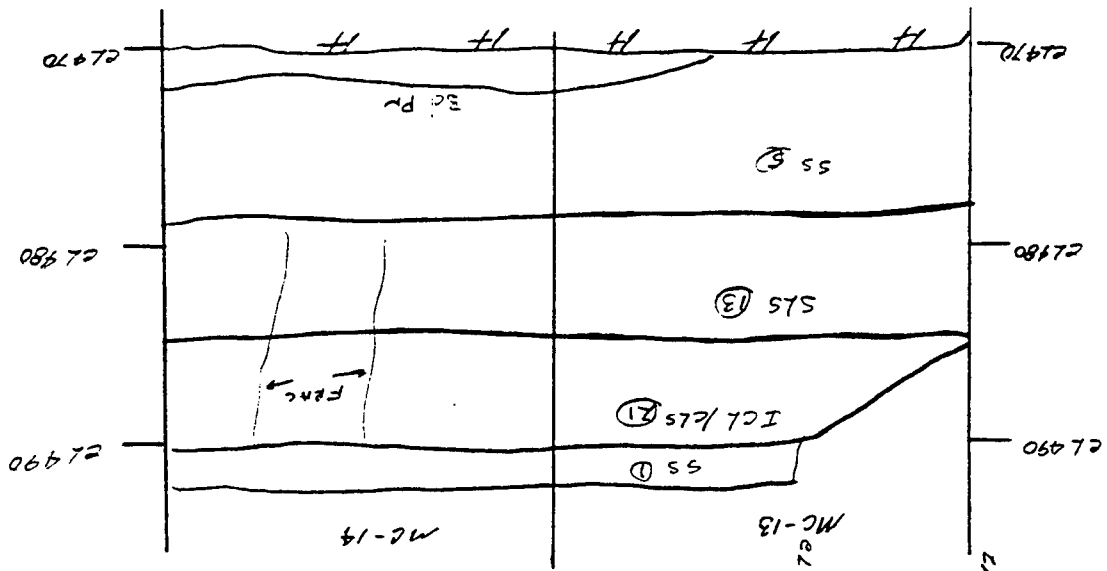


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Conduit 18,19





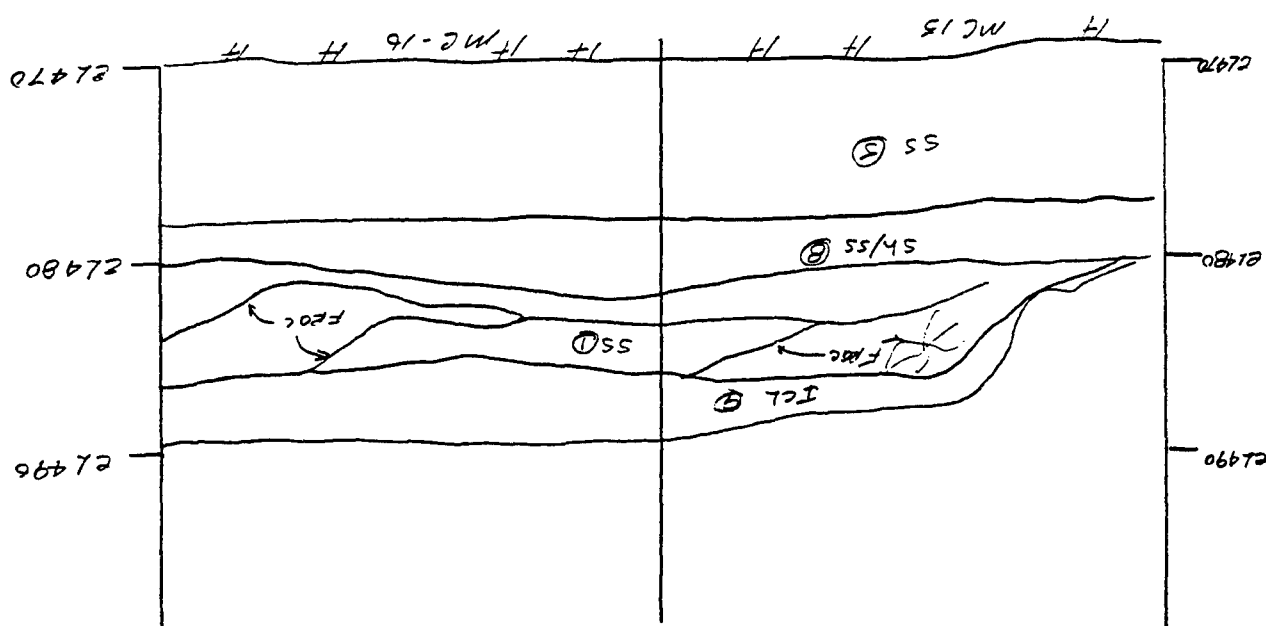
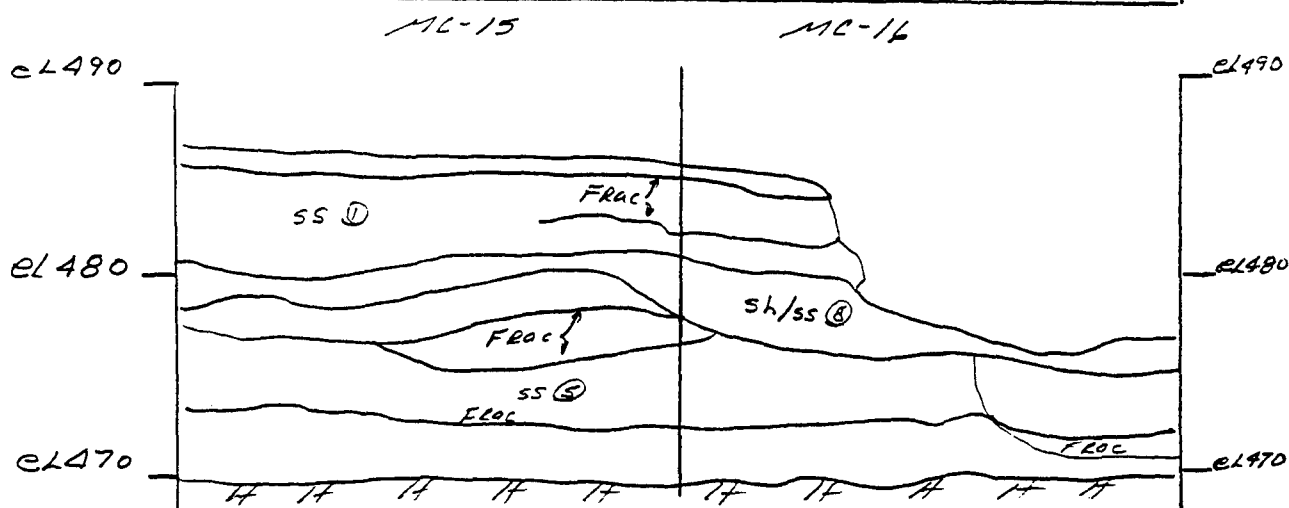
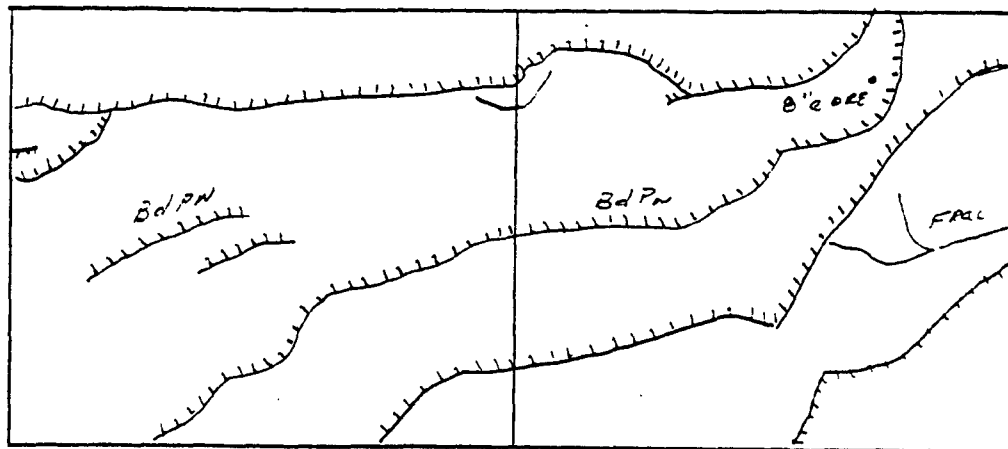


MOVO  
R-29

U.S. Army Corps of Engineers

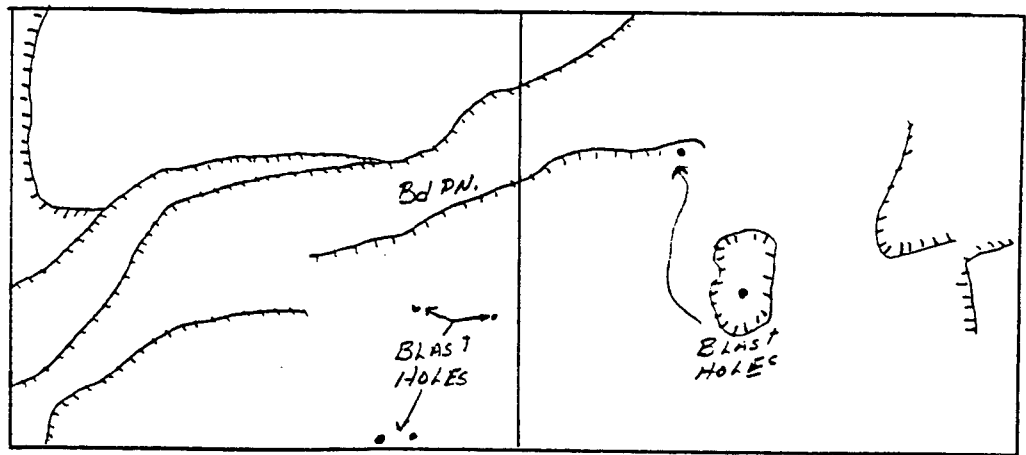
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Conduit 13,14





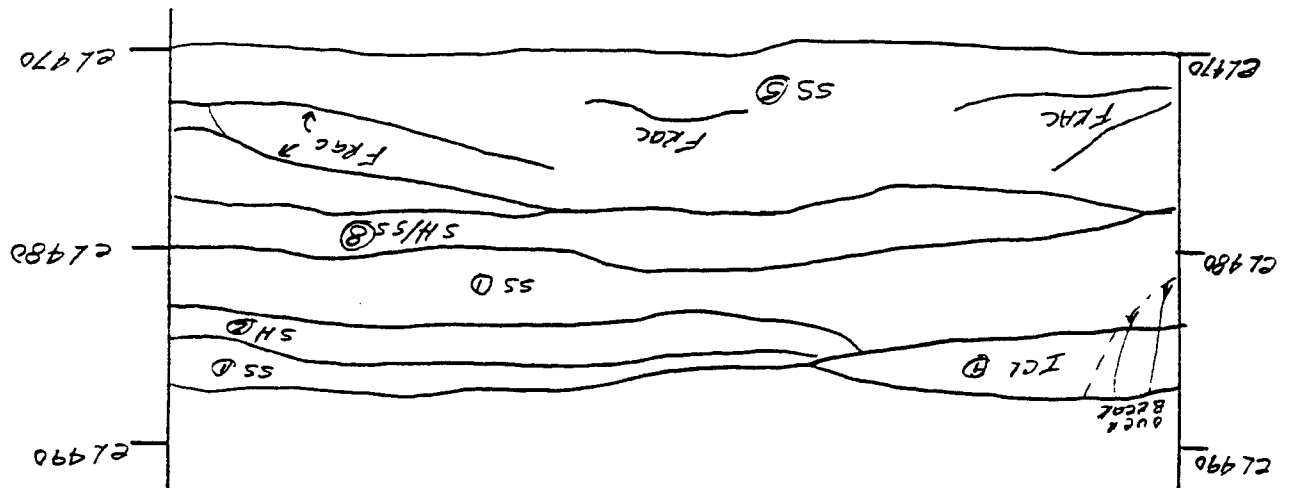
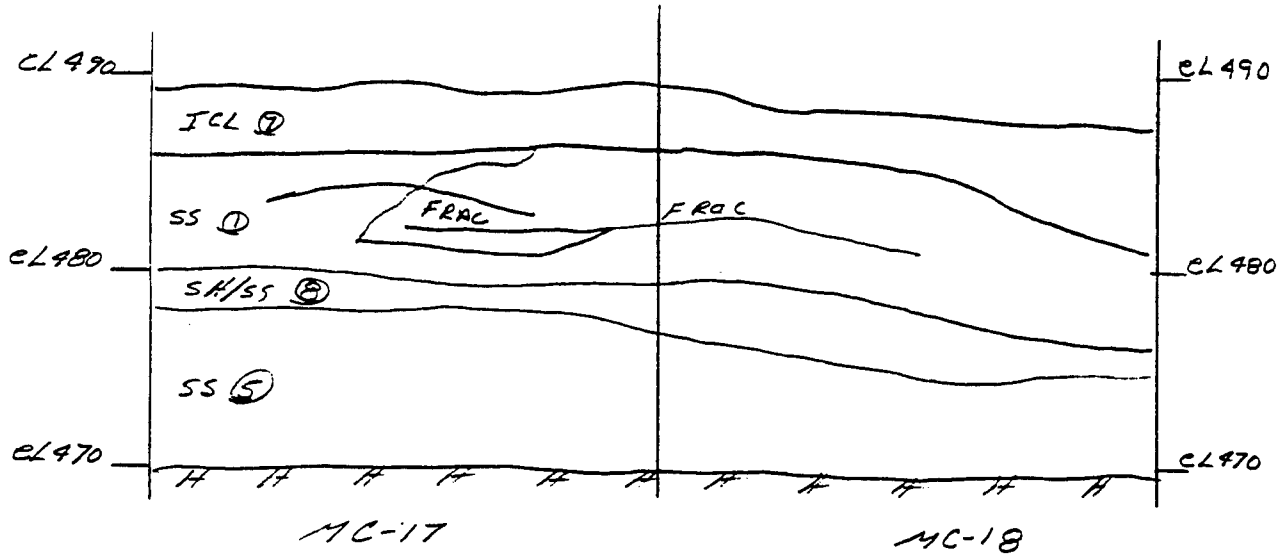
U. S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Middle Conduit 15,16



MC-17

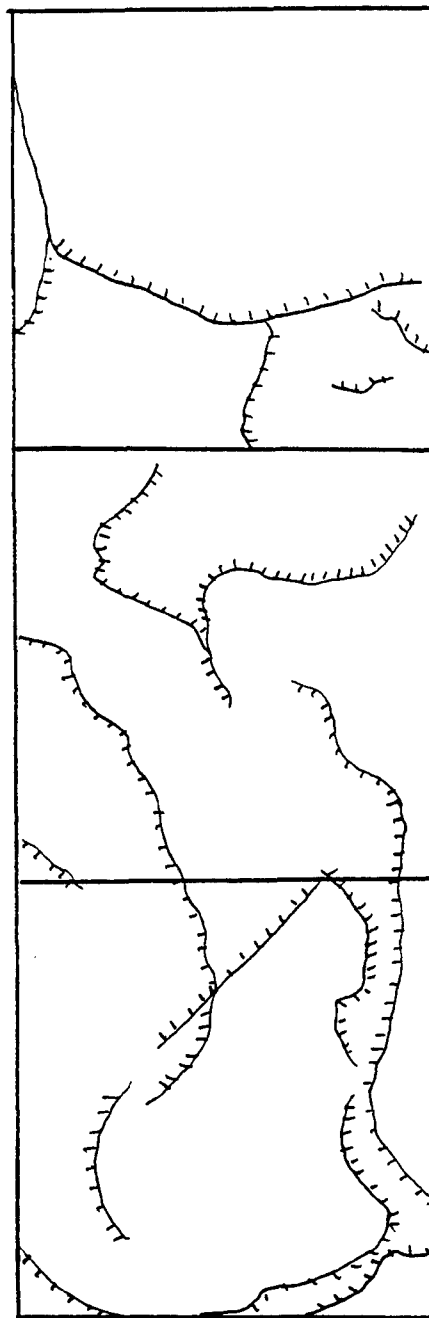
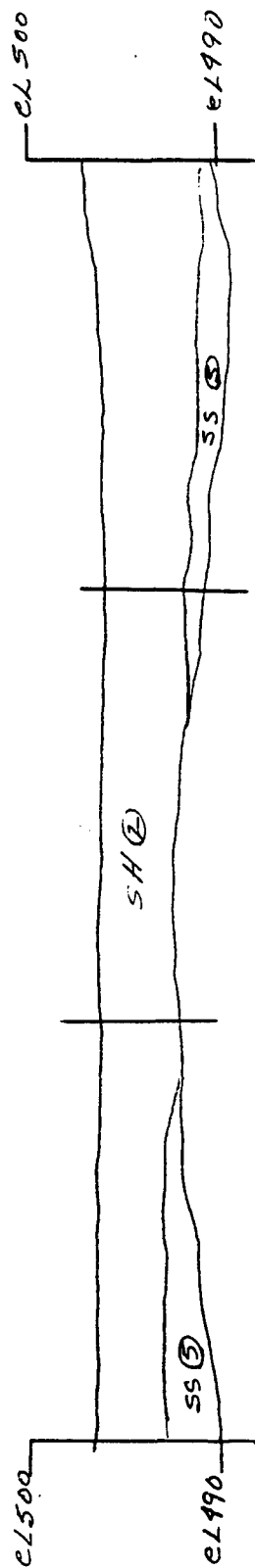
MC-18



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Conduit 17,18

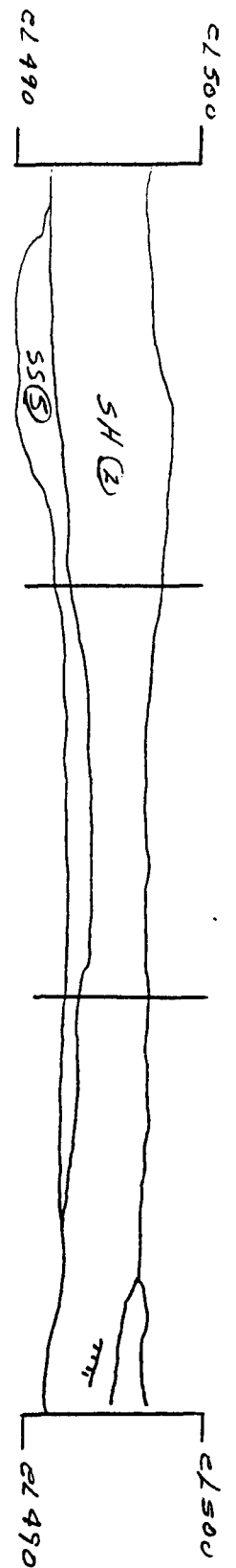




MC-22

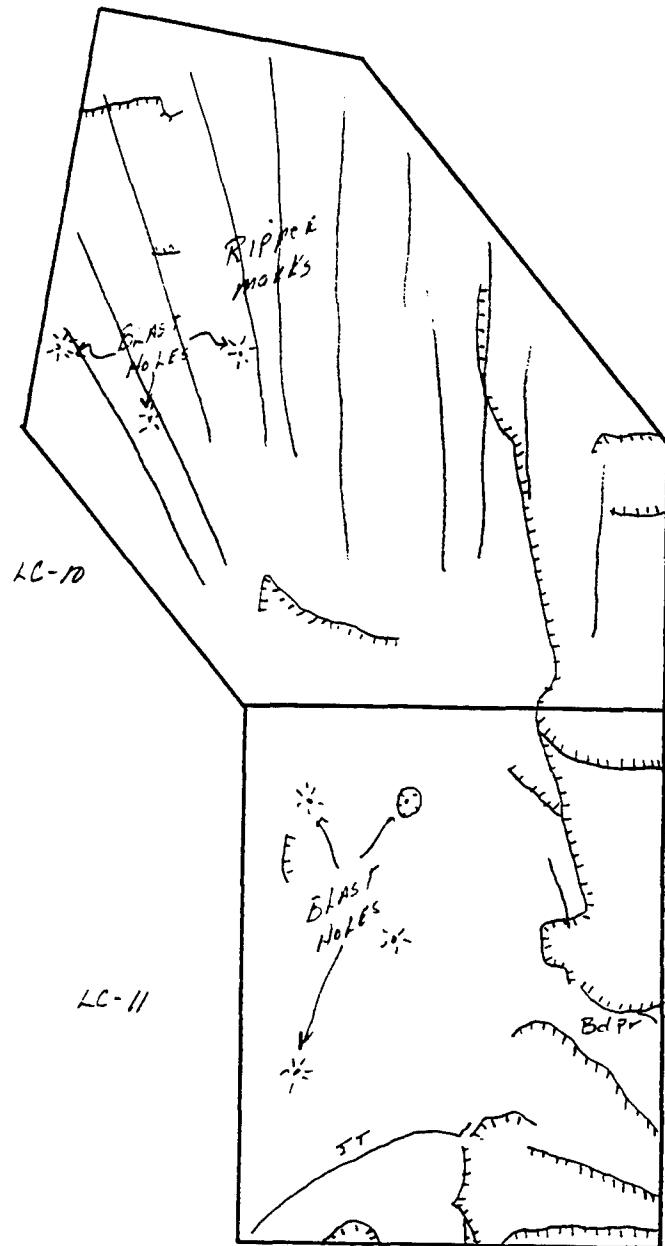
MC-23

MC-24



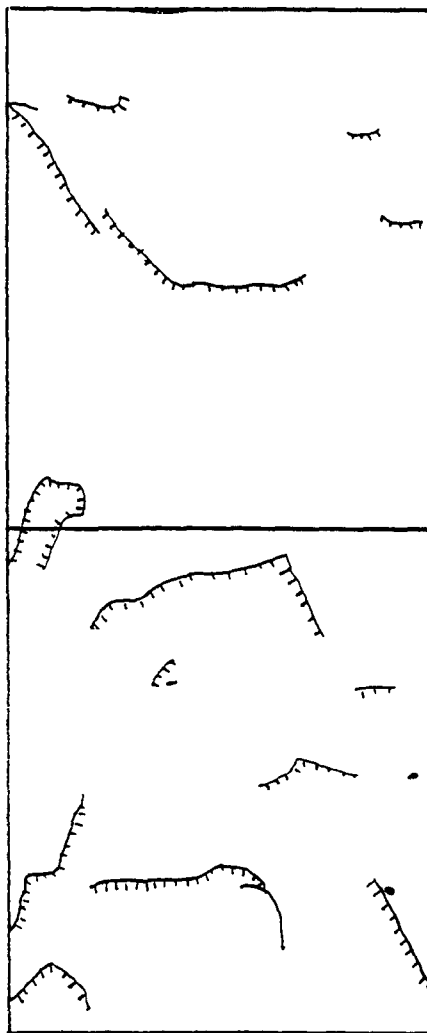
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Middle Conduit 22, 23, 24

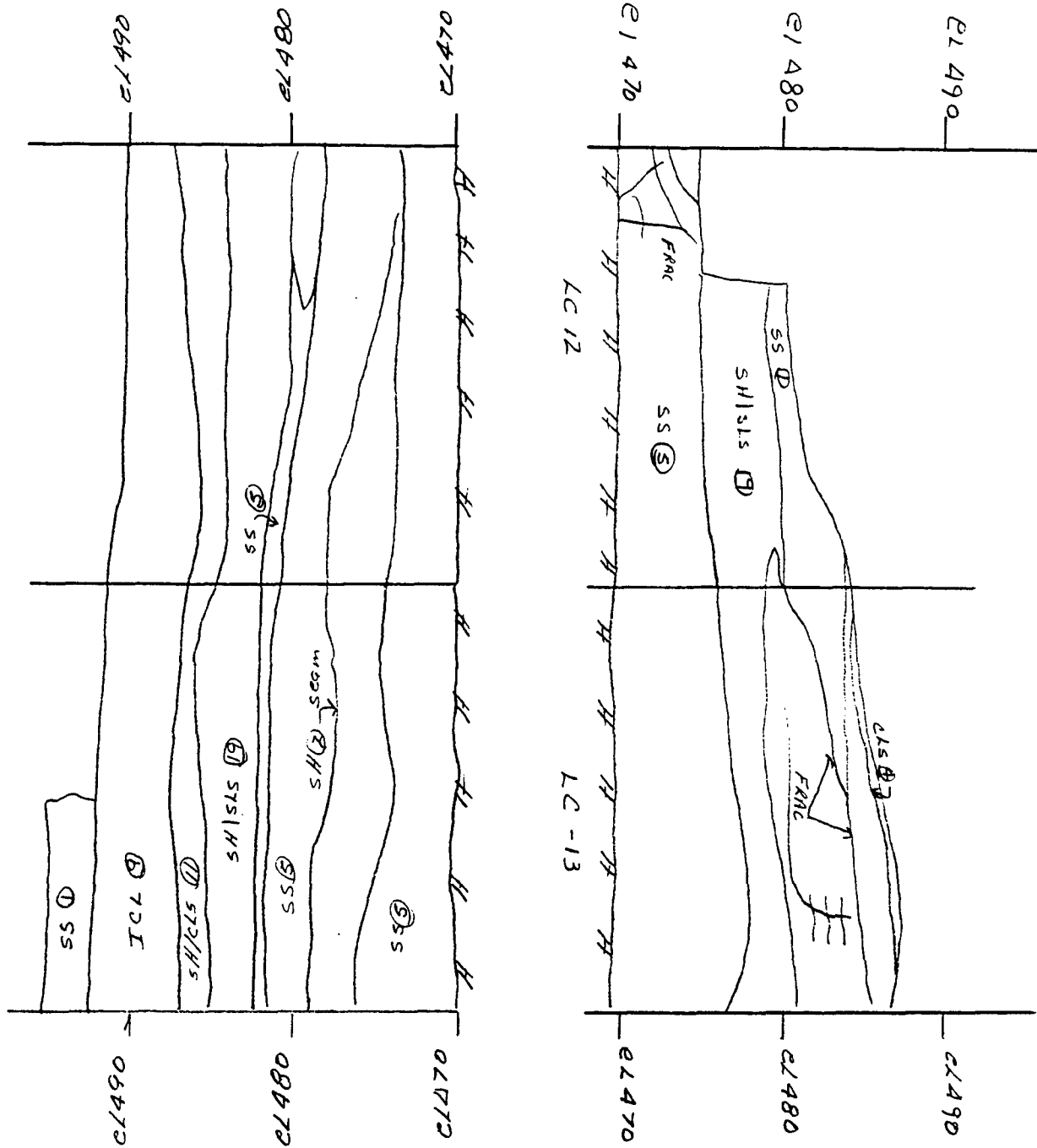




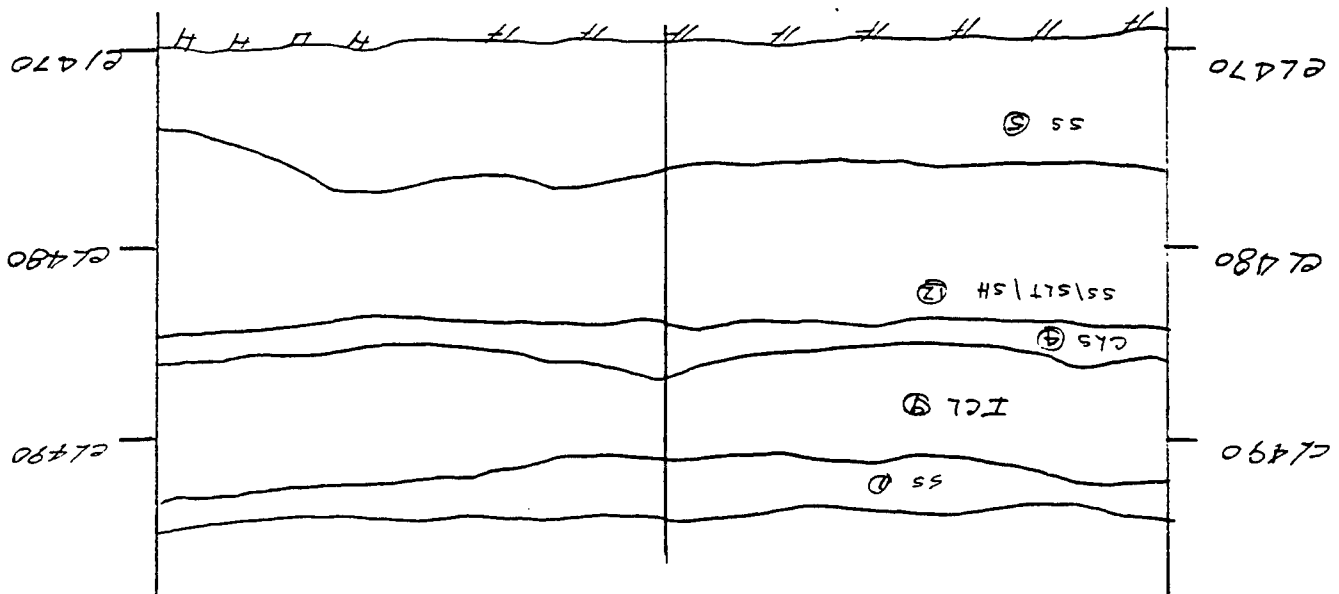
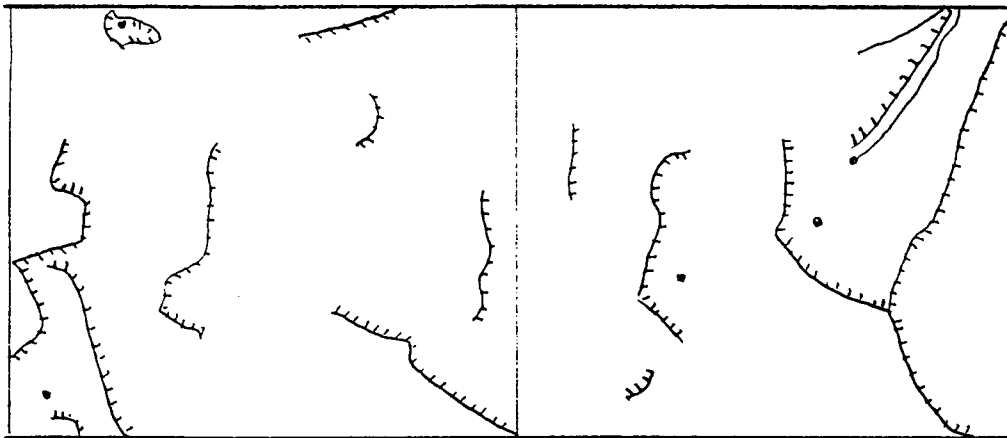
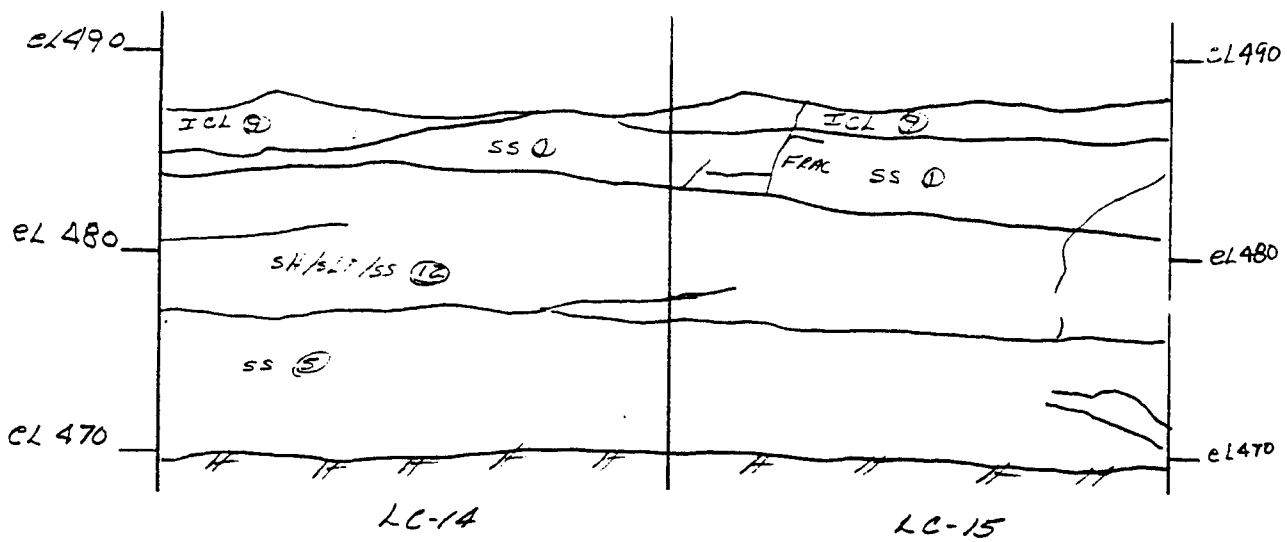
KC-12

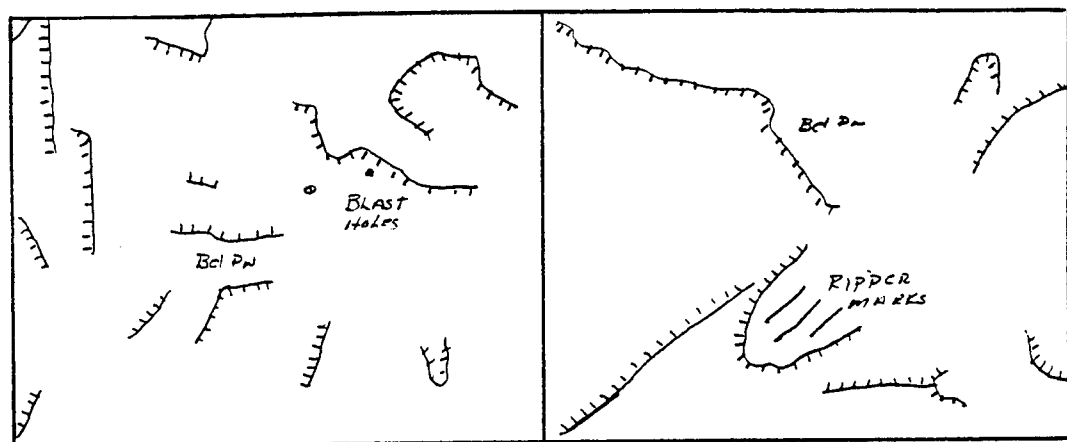
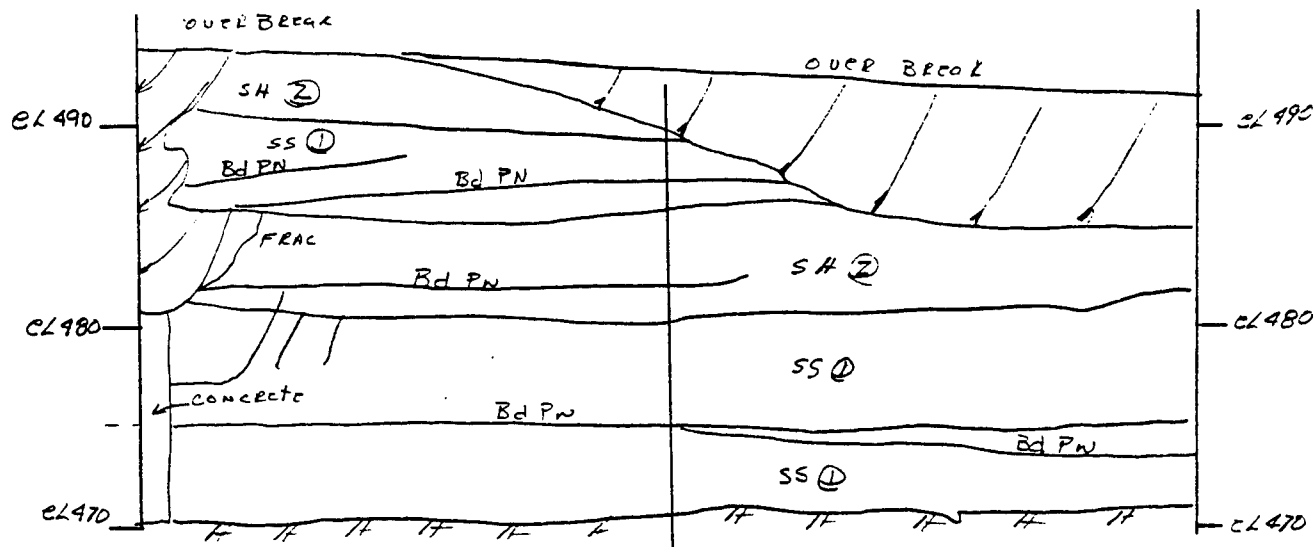


KC-13



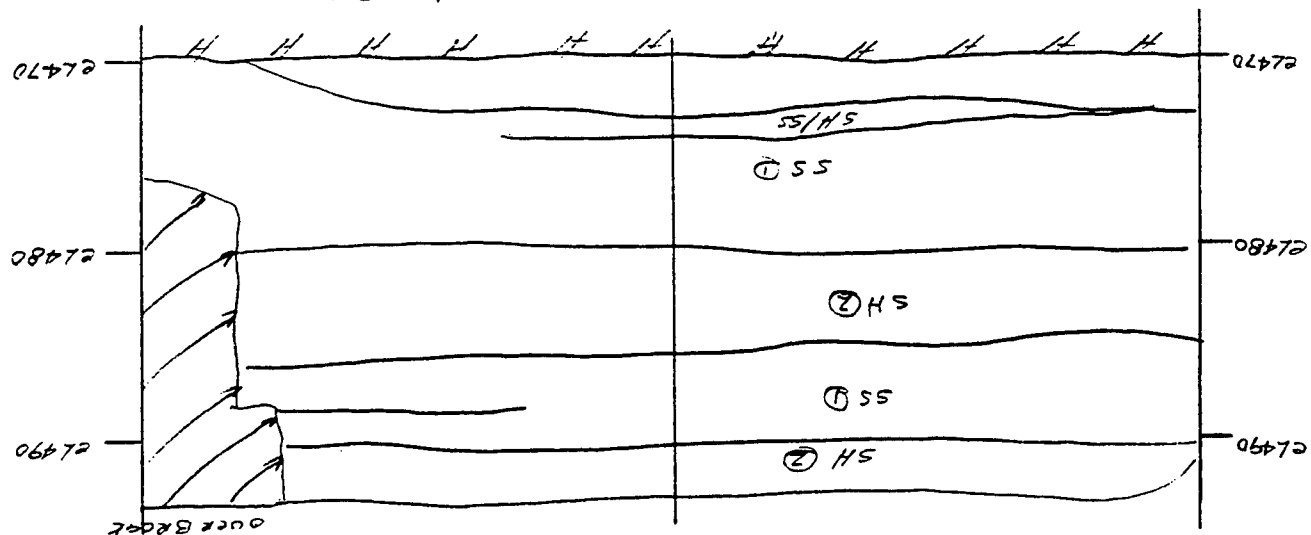






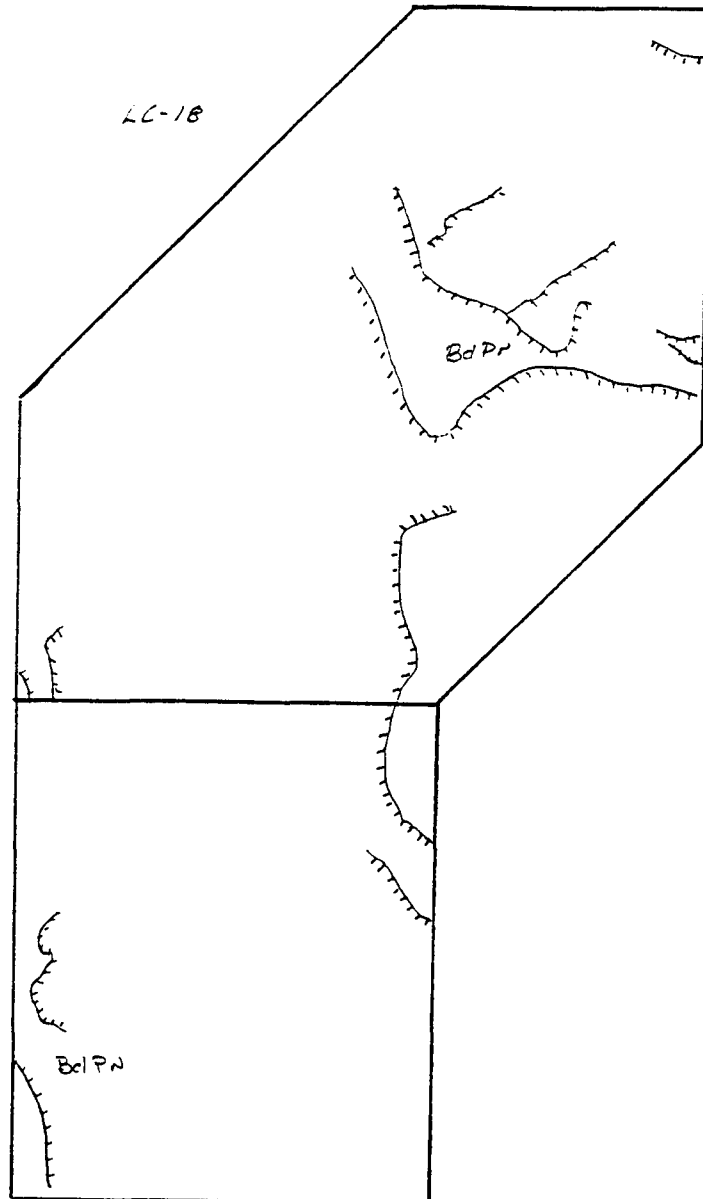
LC-16

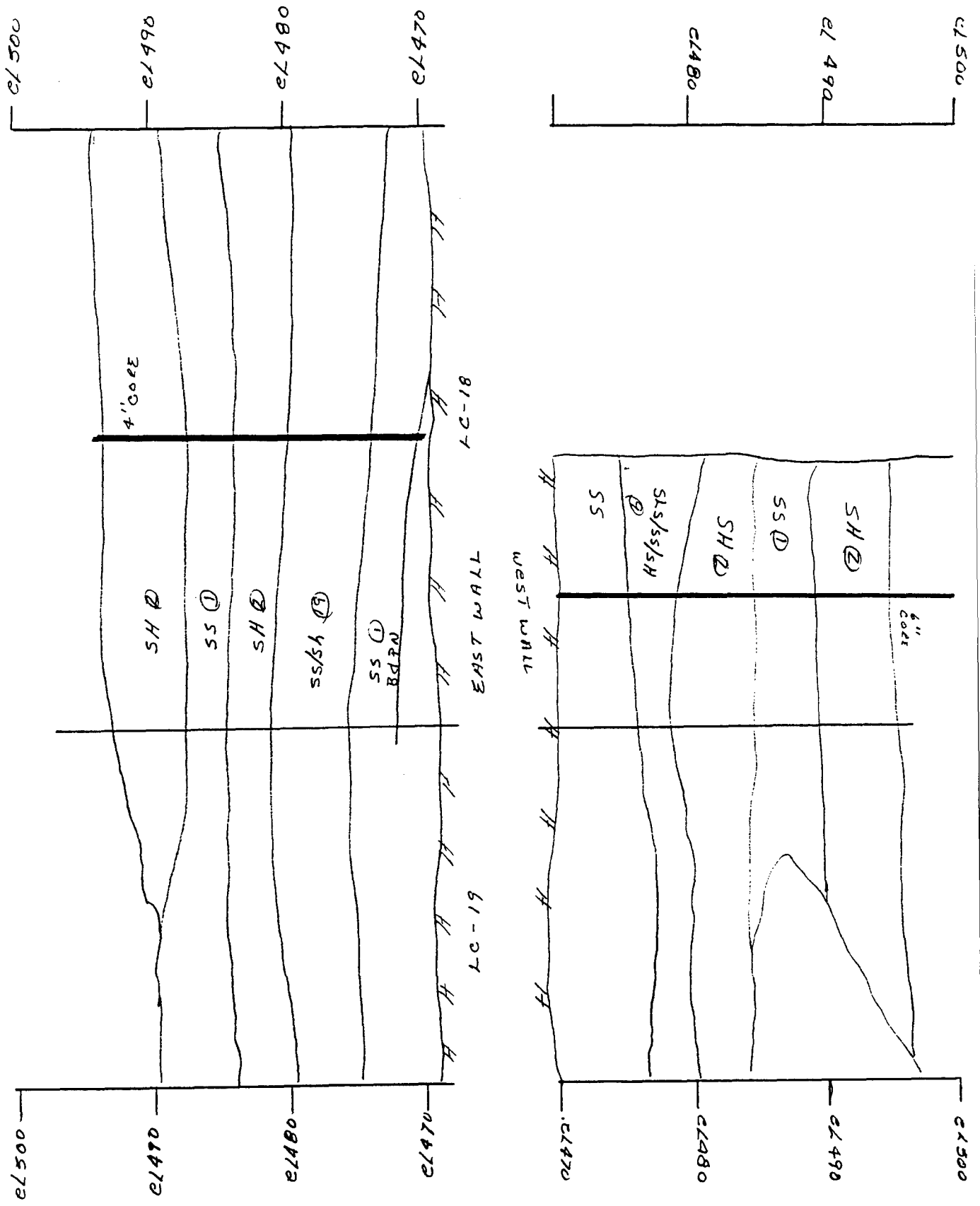
LC-17



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Conduit 16,17



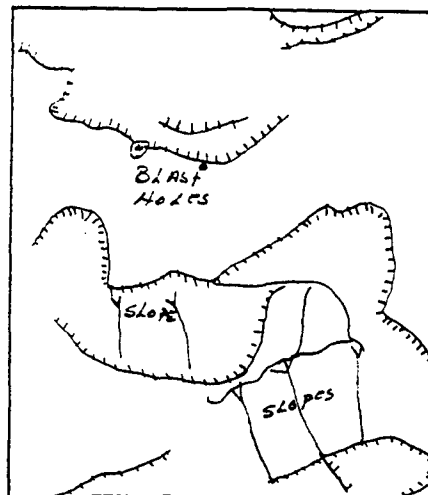


U.S. Army Corps of Engineers

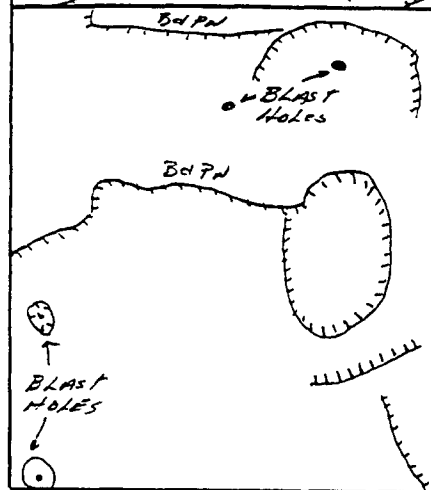
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Conduit 18,19



LC-22

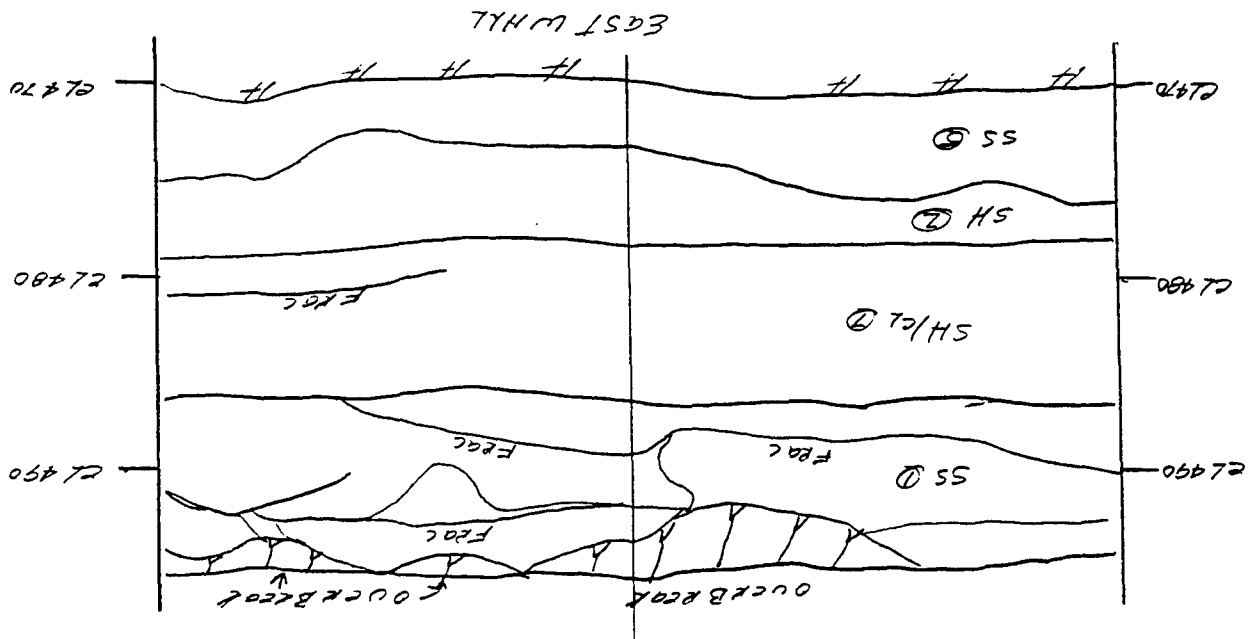
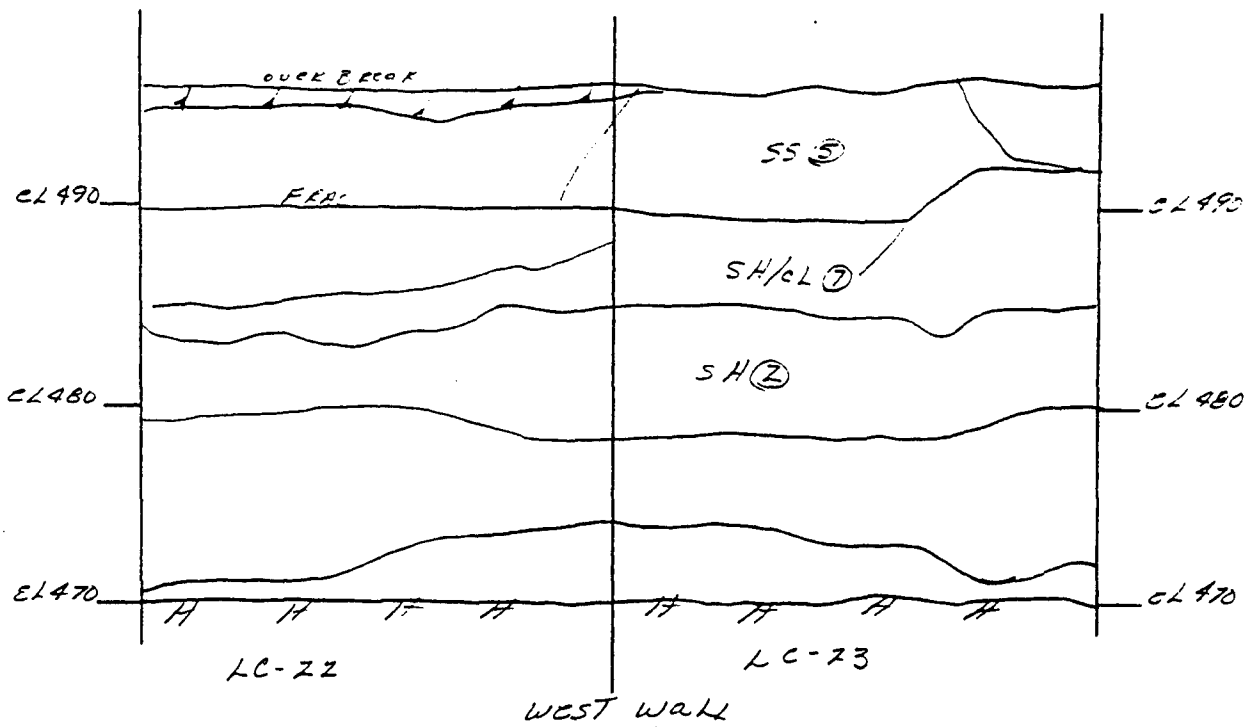


LC-23



U.S. Army Corps of Engineers

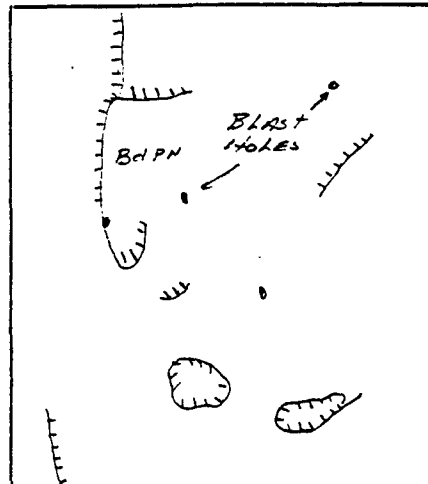
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Conduit 22,23



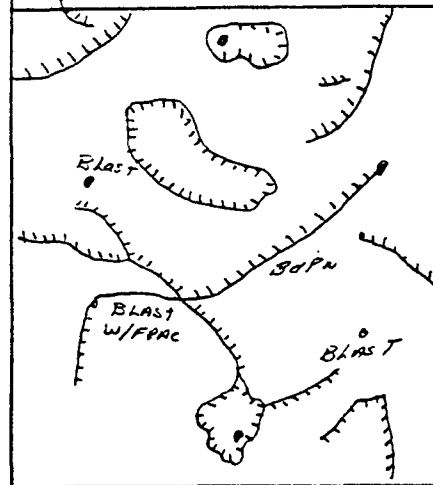
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Conduit 22,23

LC-24



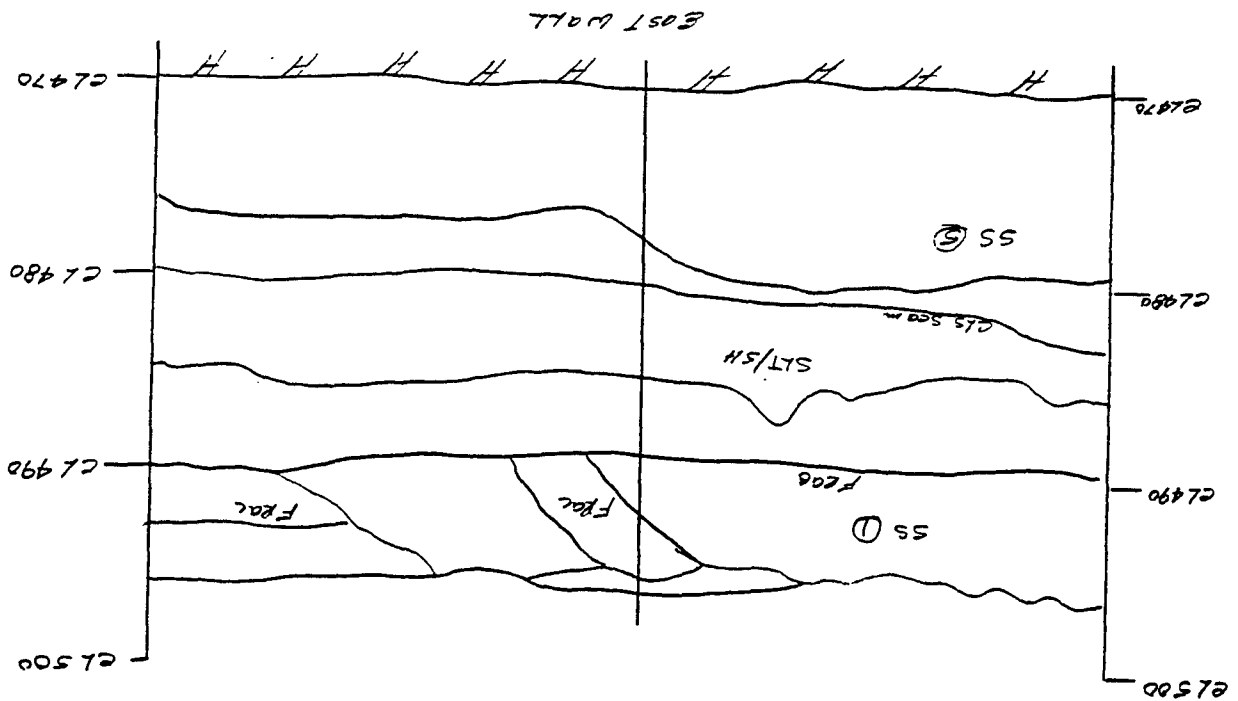
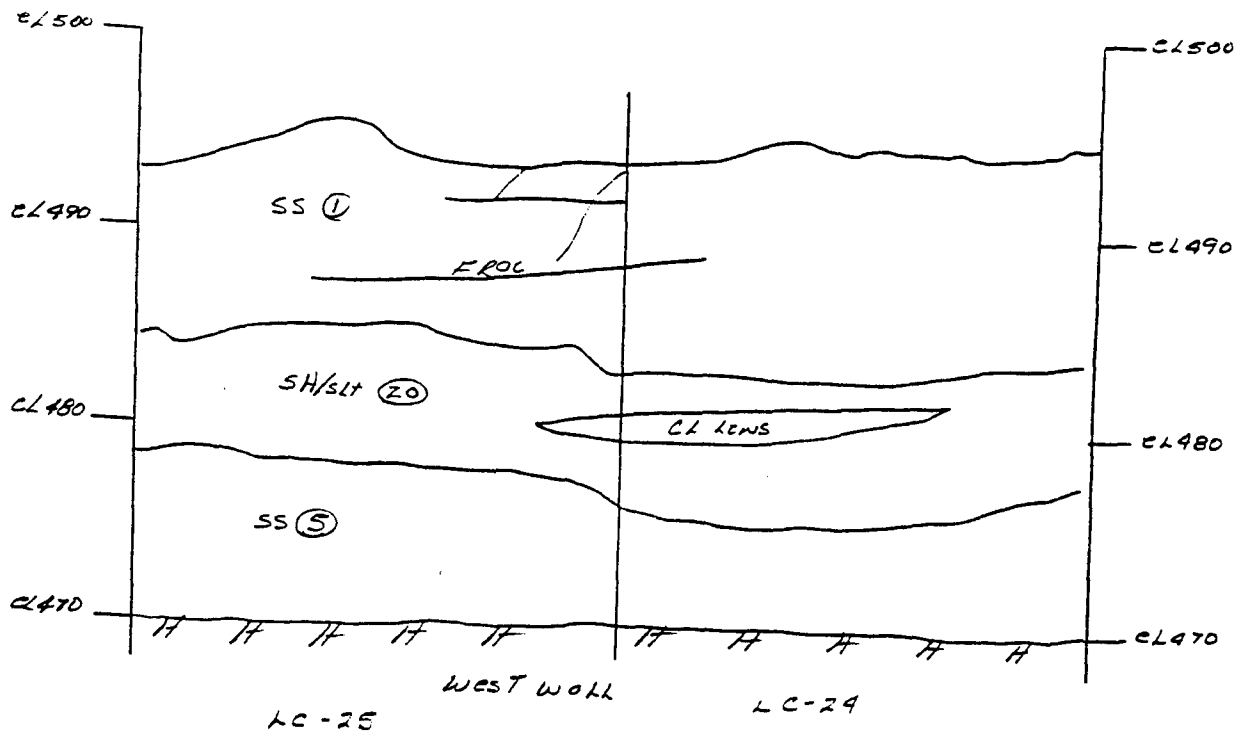
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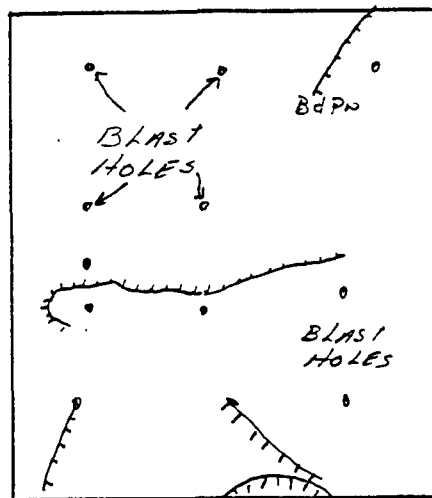
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Conduit 24,25

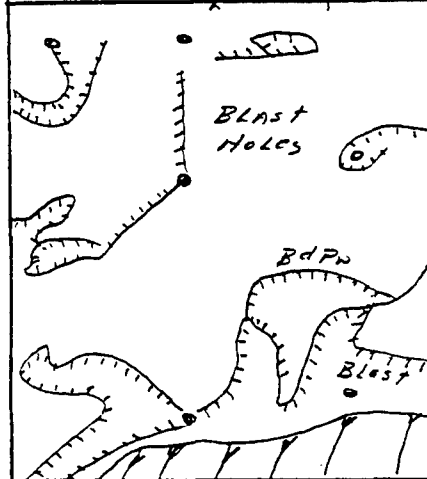




LC-26

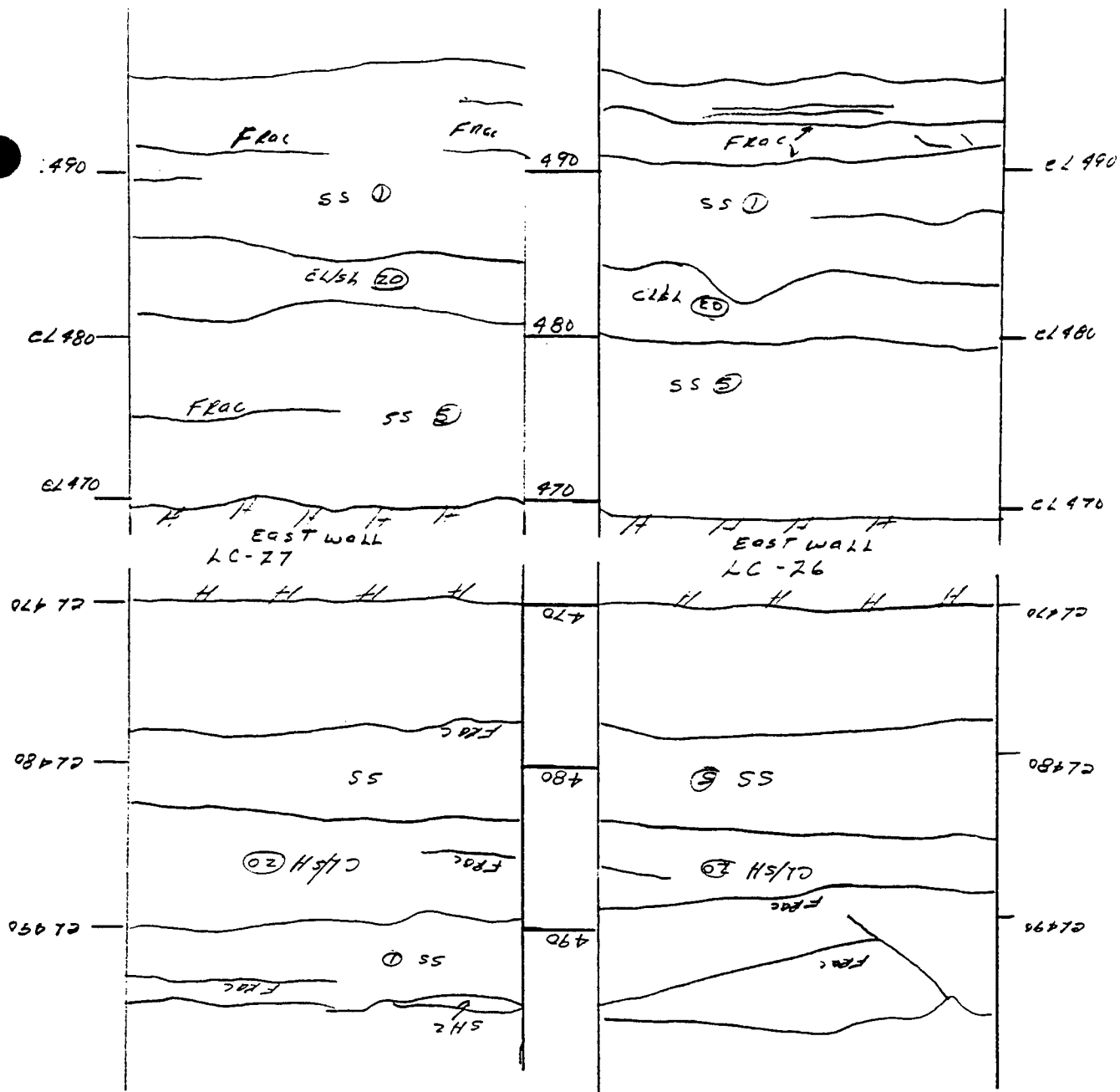


LC-27



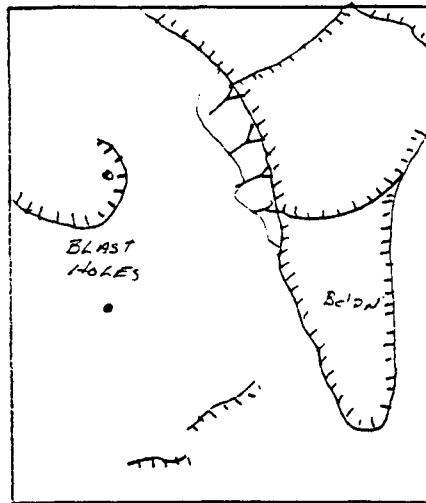
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Conduit 26,27

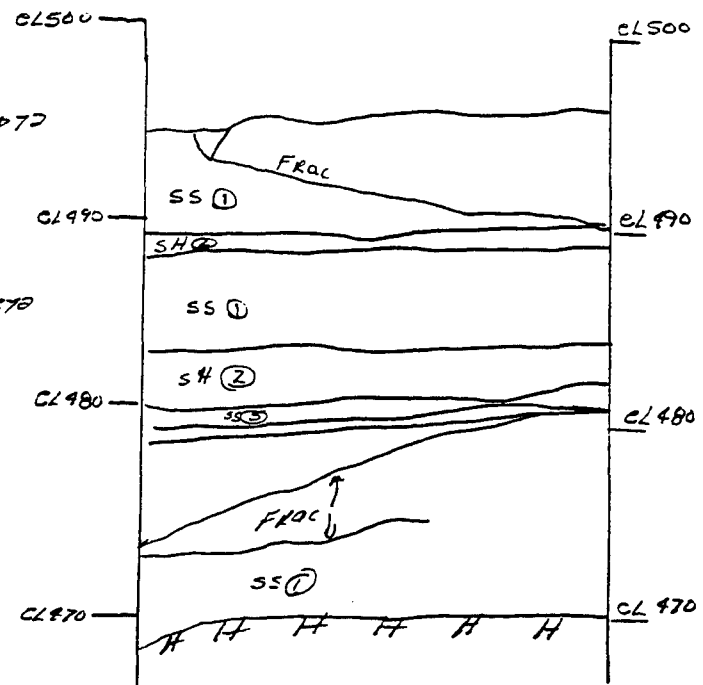
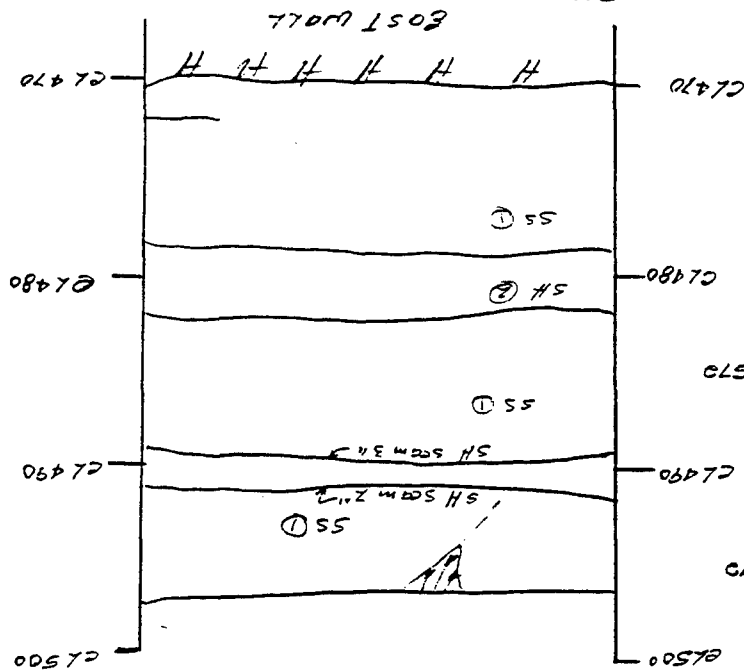


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal...  
Foundation Drawing  
Land Conduit 26,27



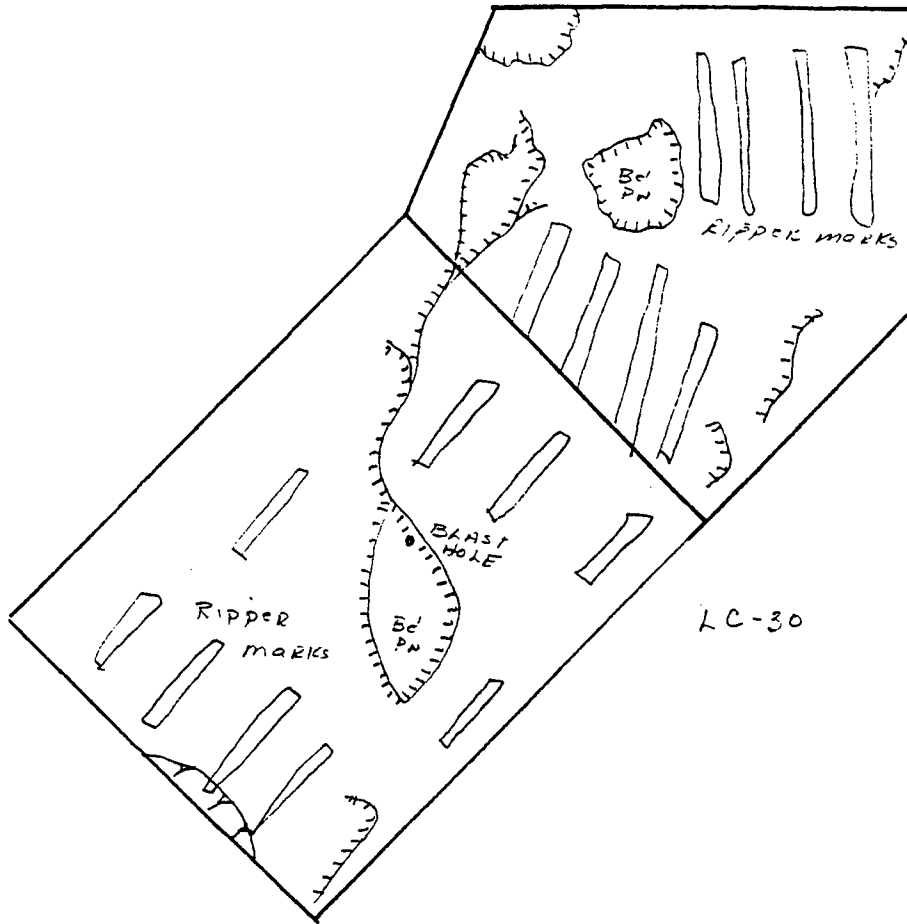
LC-28



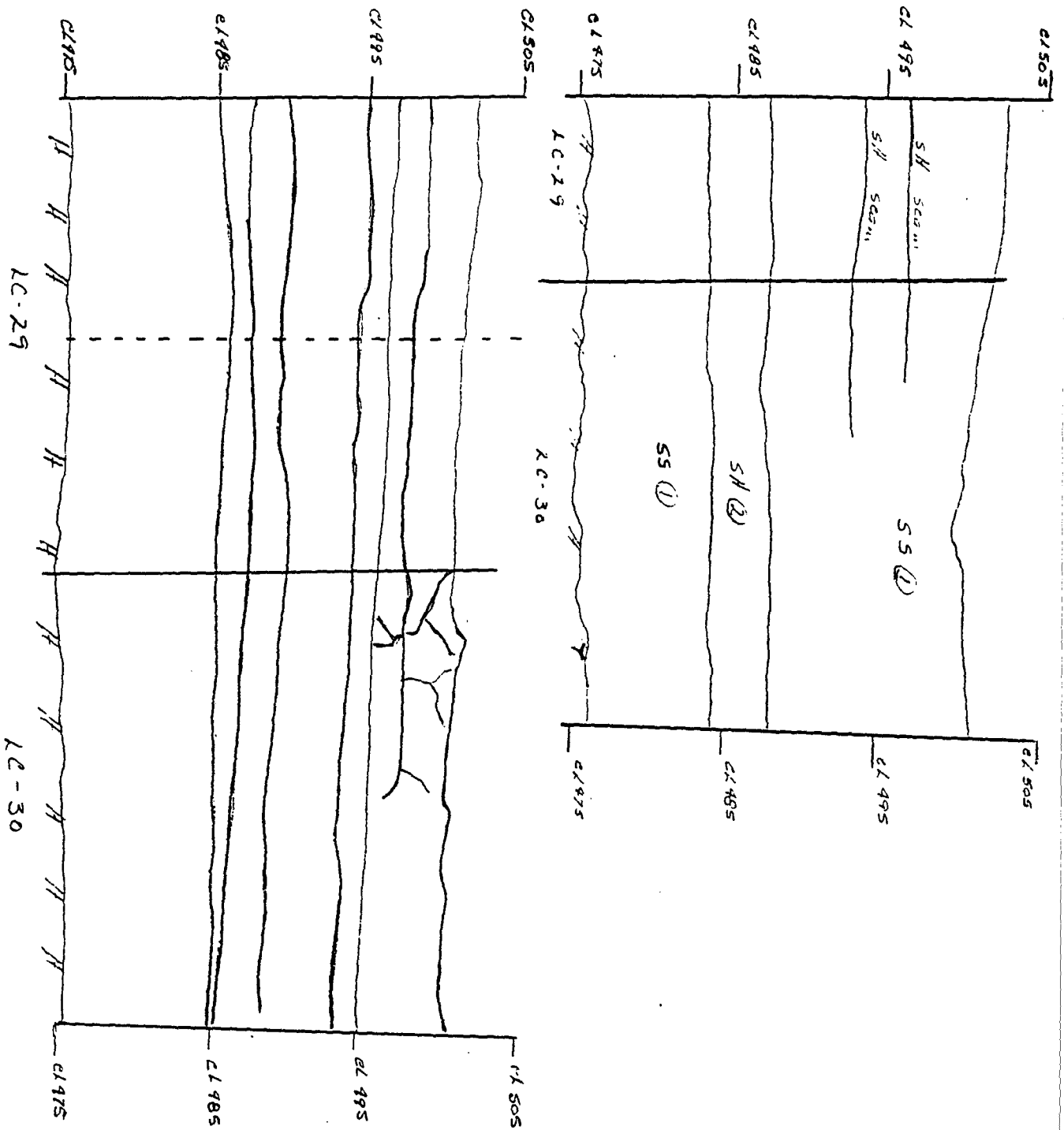
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Conduit 28

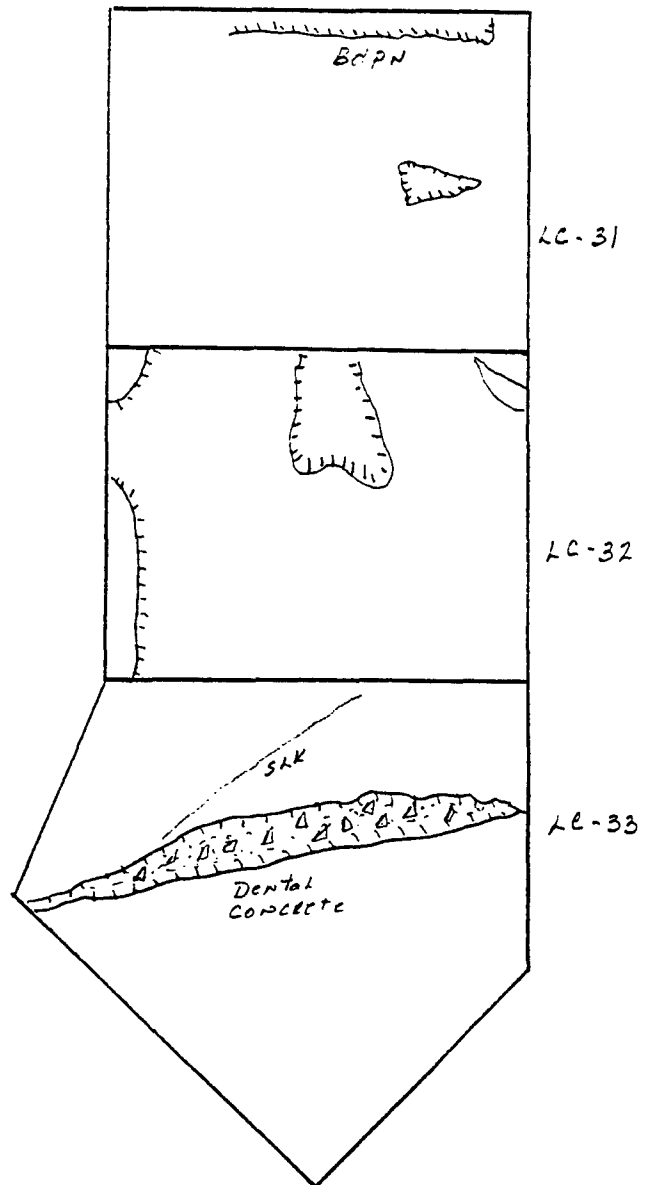
LC-29

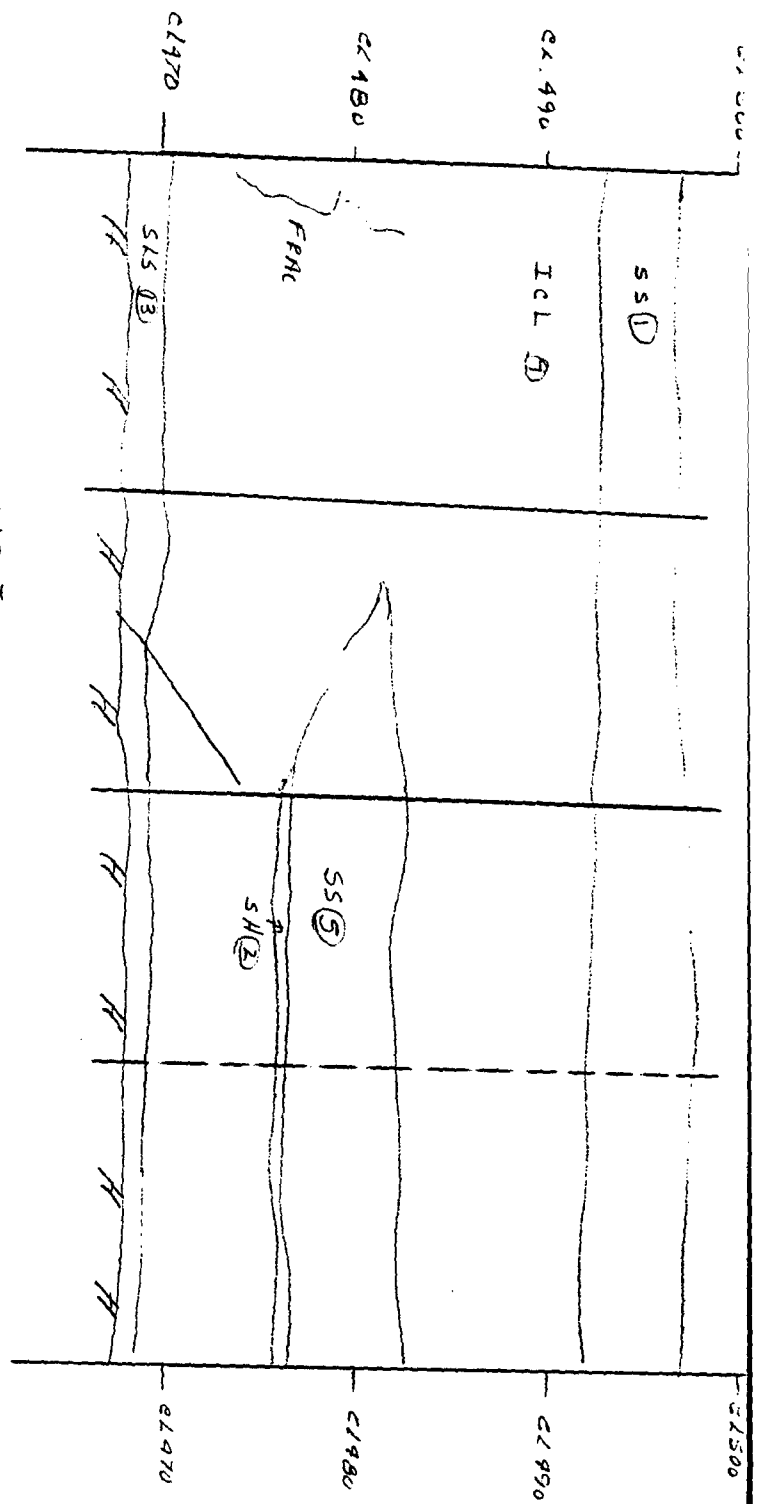


LC-30

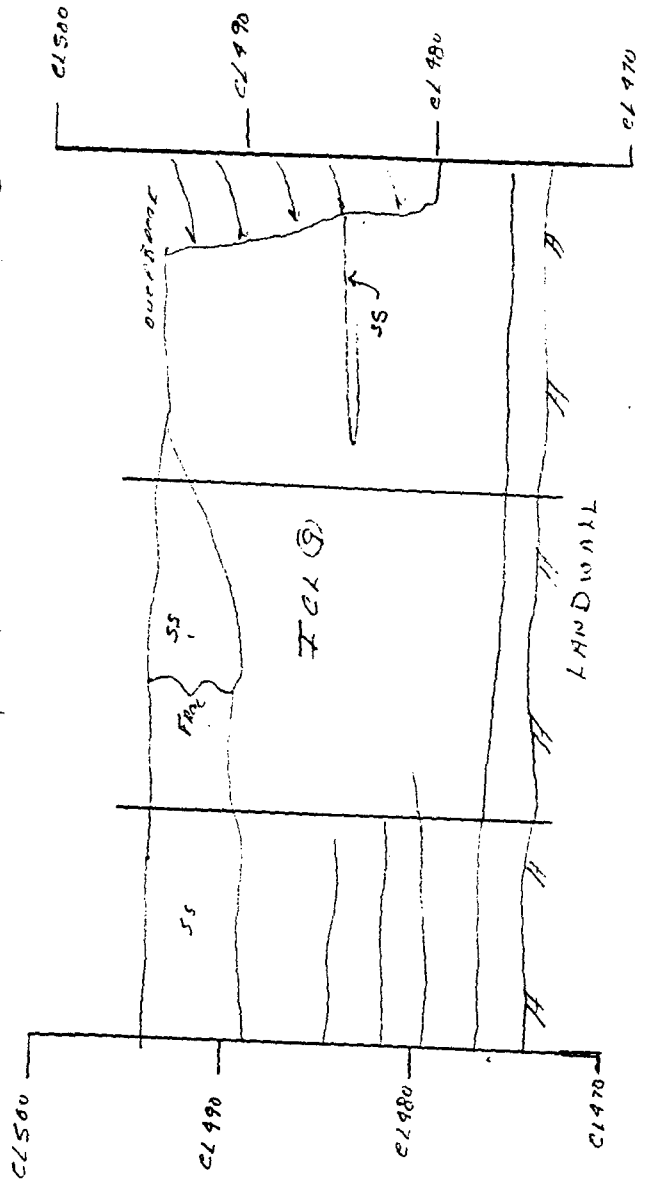


U.S. Army Corps of Engineers  
 Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation Drawing  
 Land Conduit 29,30





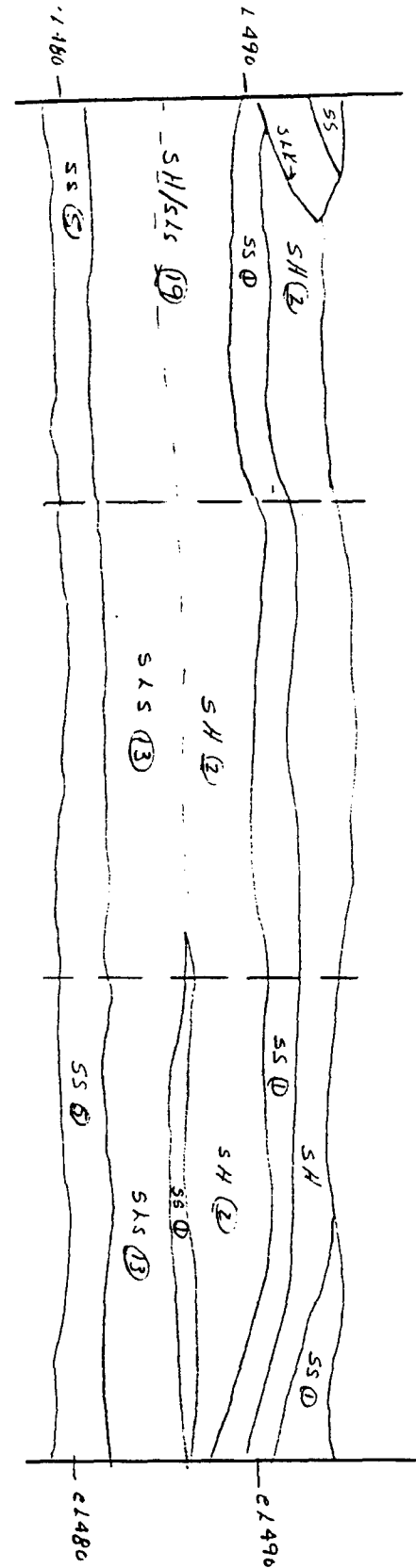
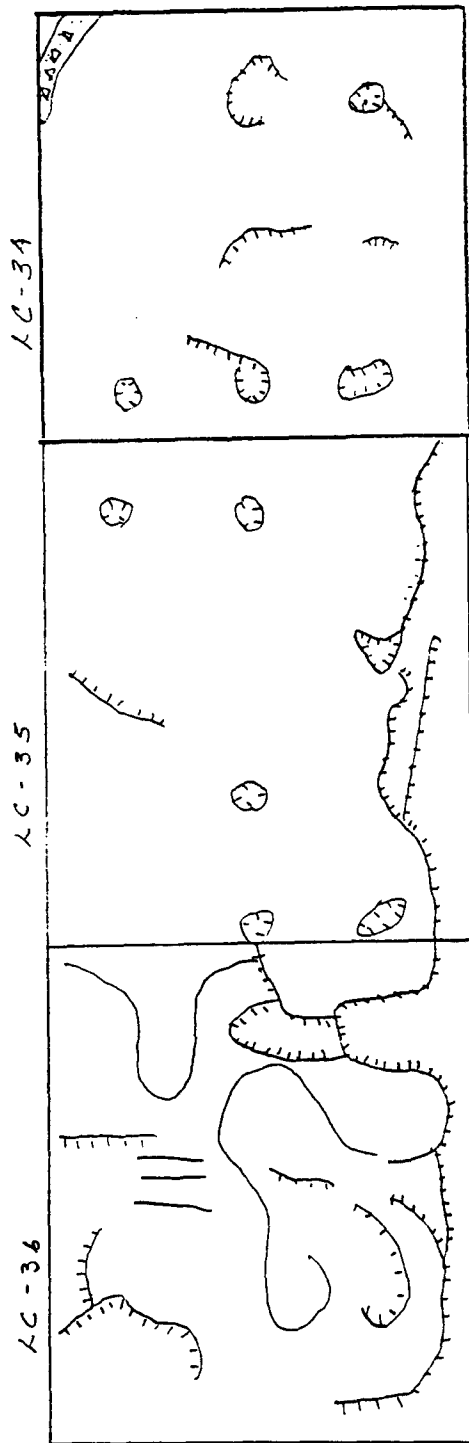
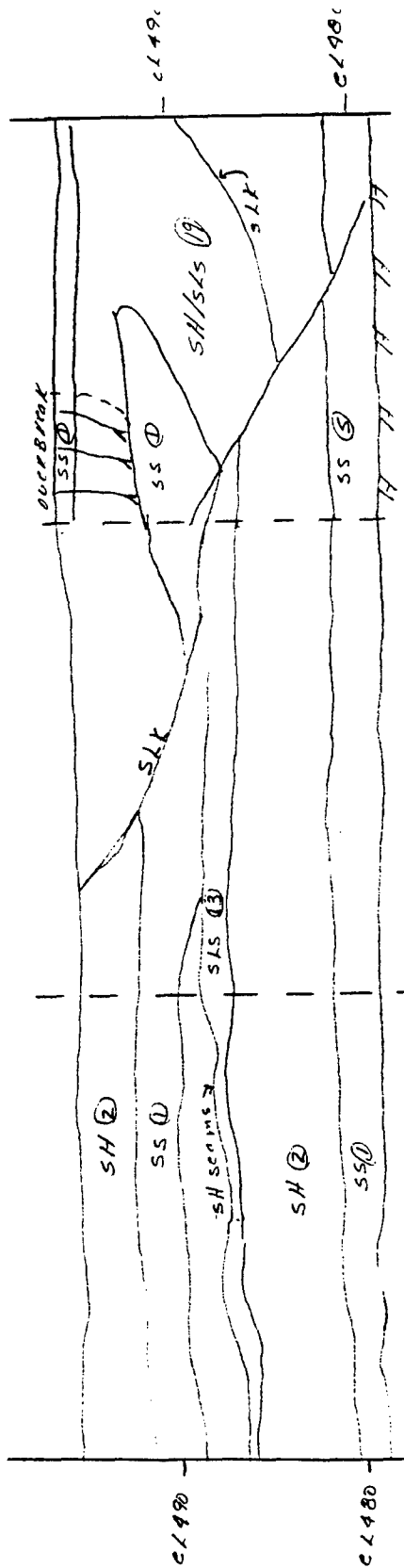
WESTWALL  
 LC-31  
 LC-32  
 LC-33



U.S. Army Corps of Engineers

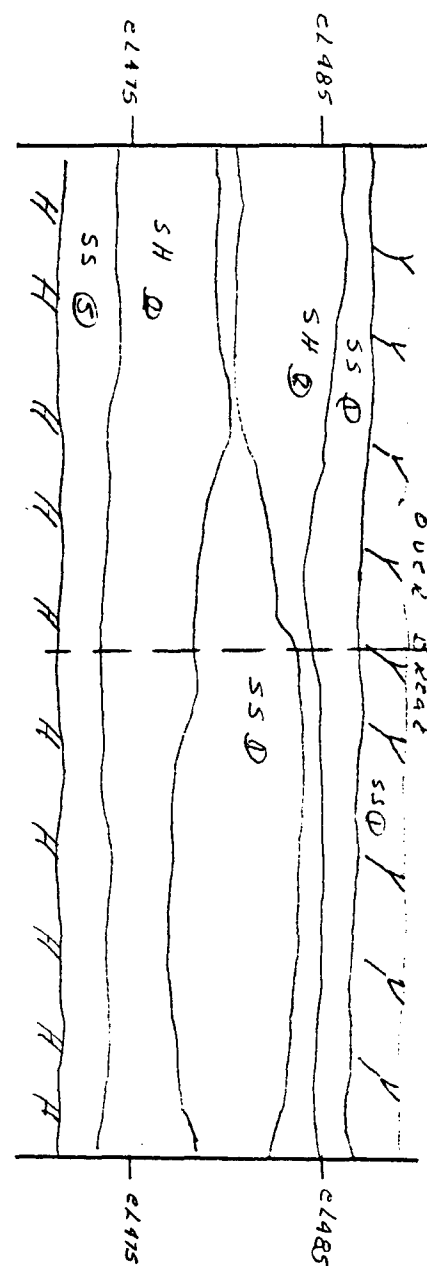
Gallipolis Lock and Dam  
 Lock in Canal  
 Foundation drawing  
 Land Conduit 31,32,33

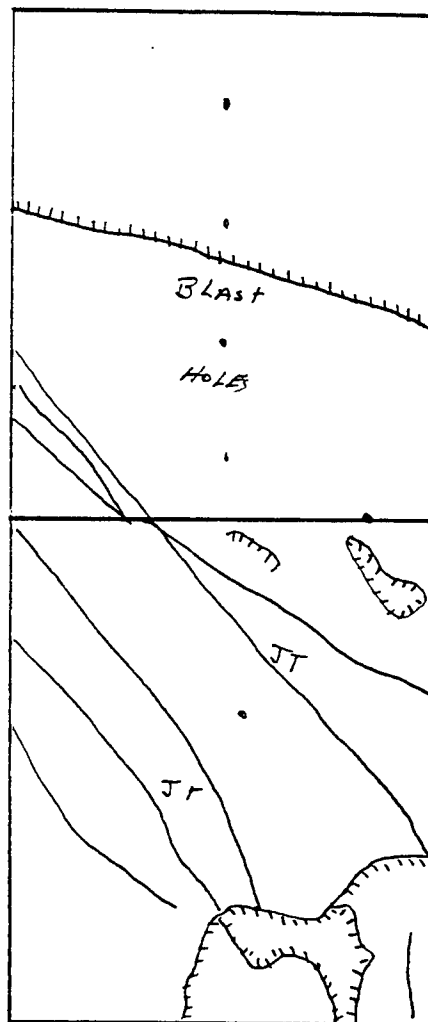
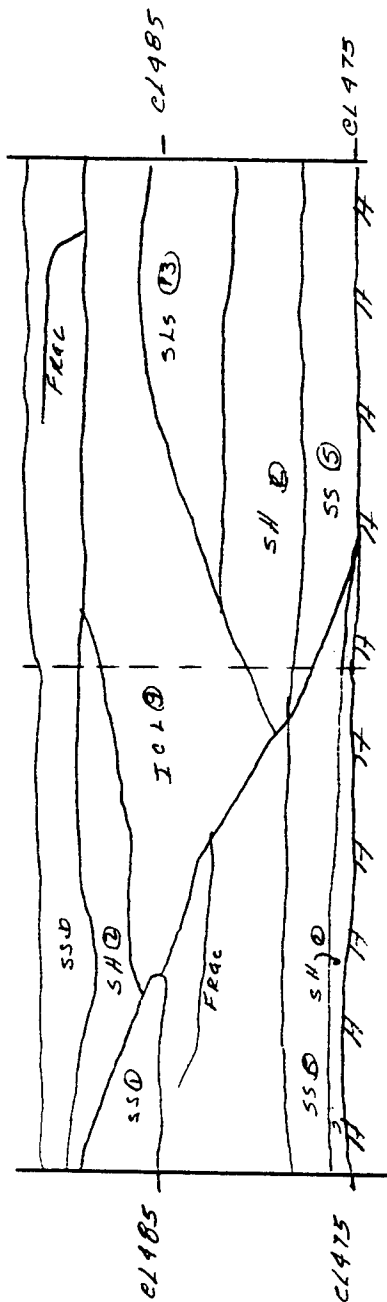




U.S. Army Corps of Engineers

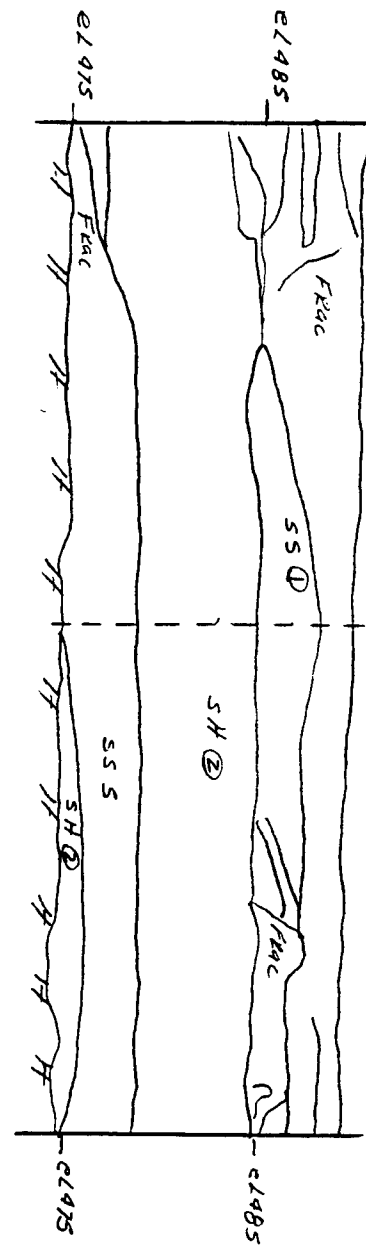
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Conduit 34,35,36





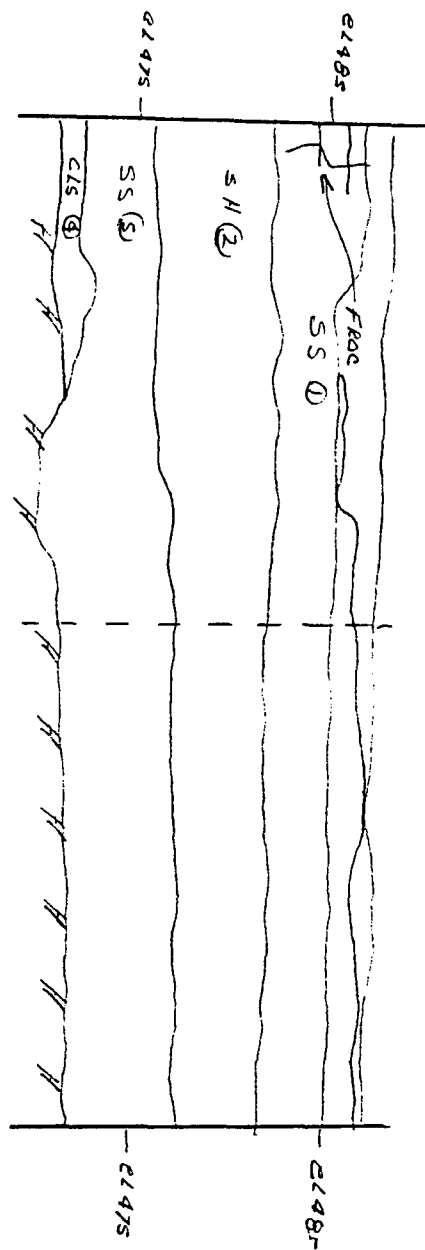
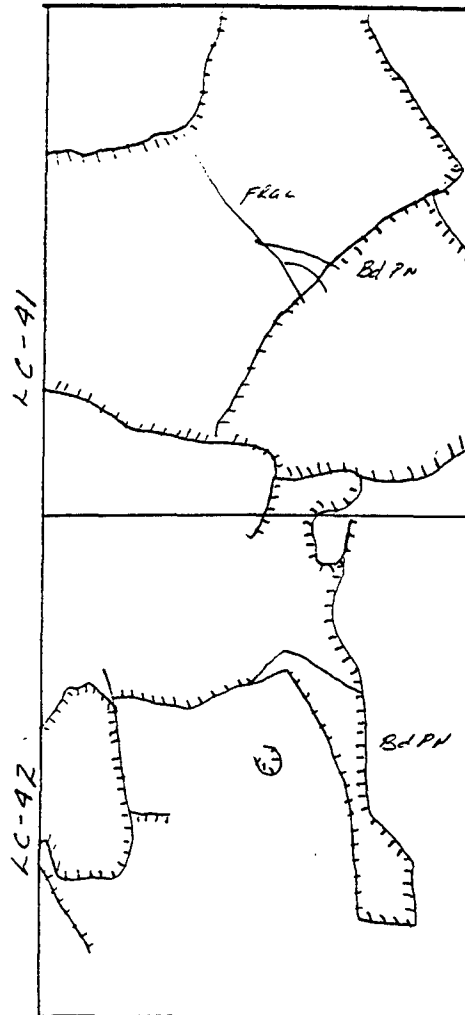
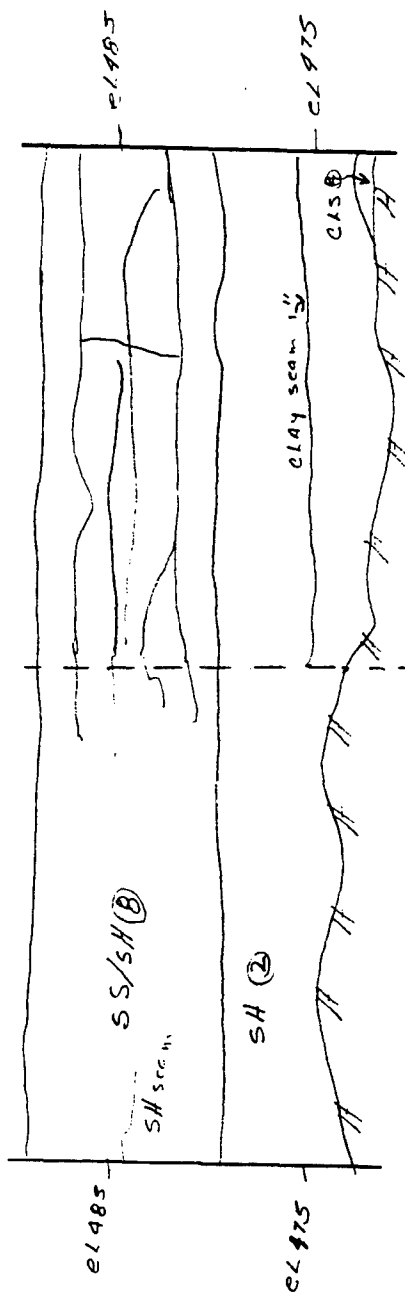
LC-39

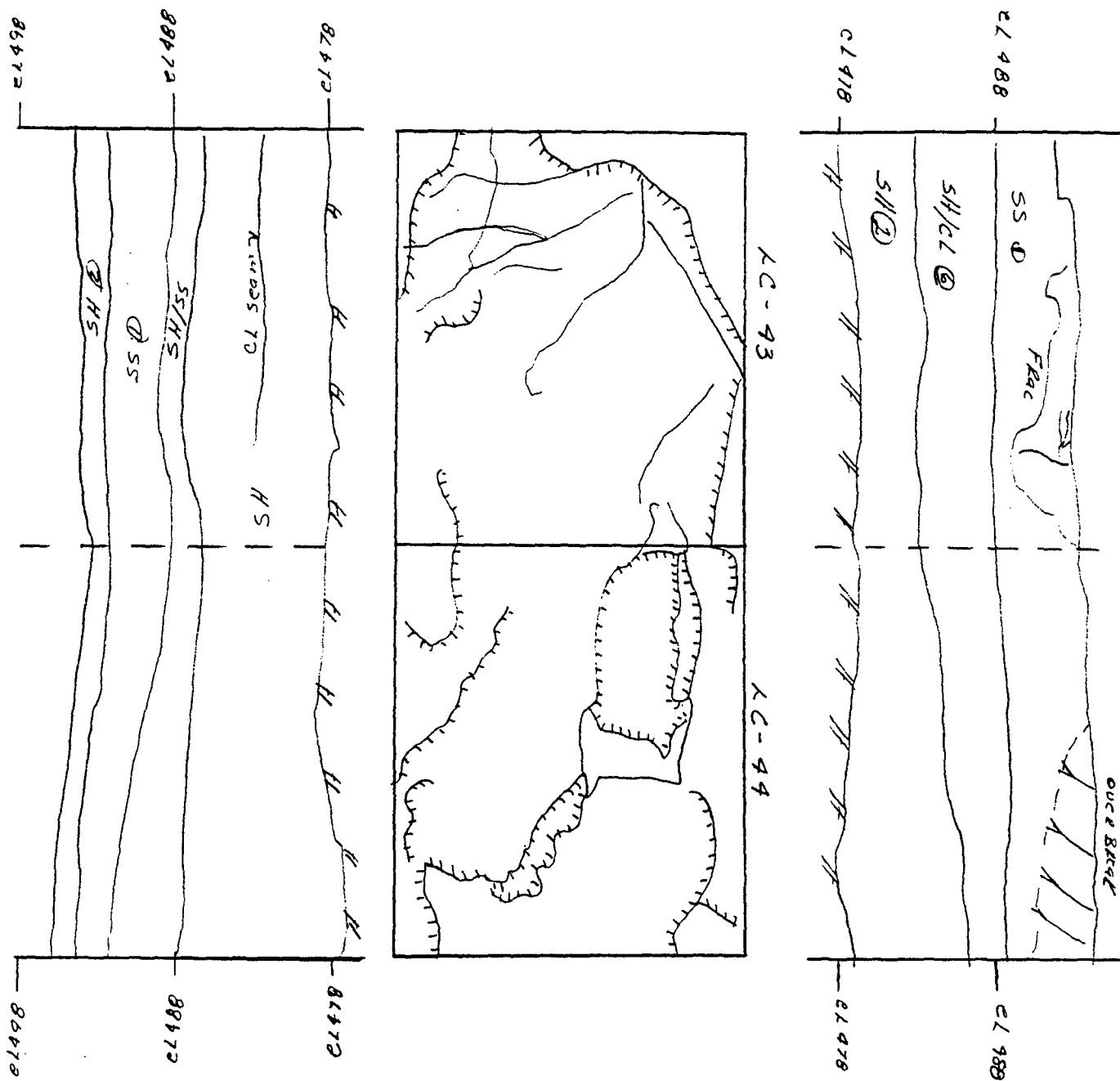
LC-40



U.S. Army Corps of Engineers

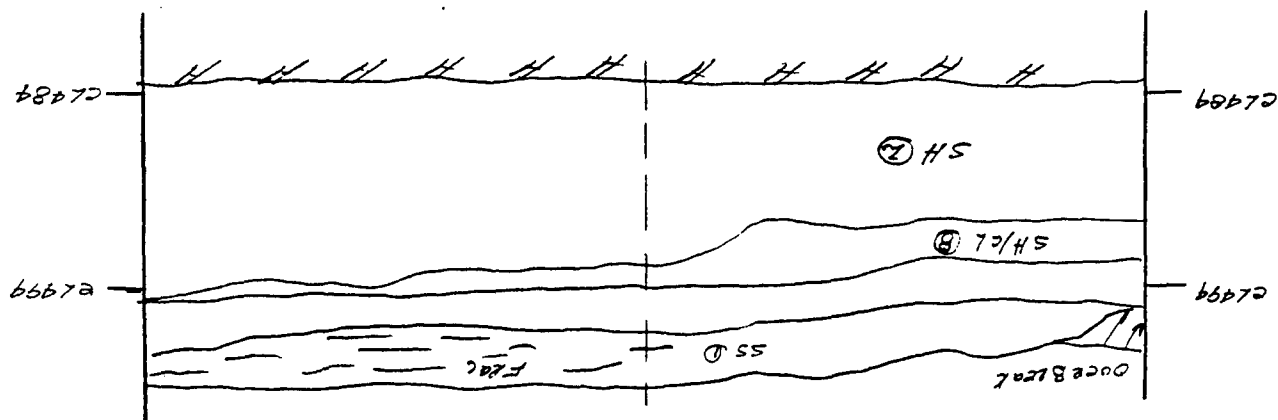
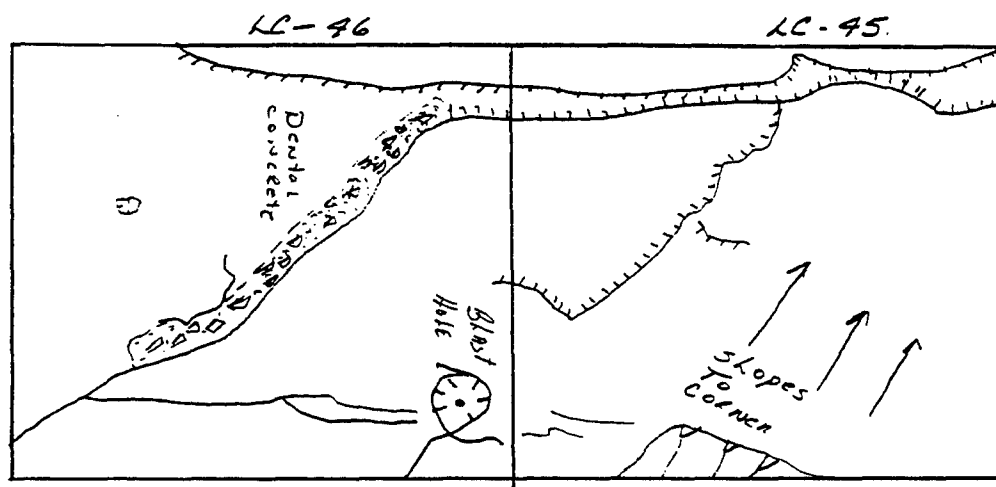
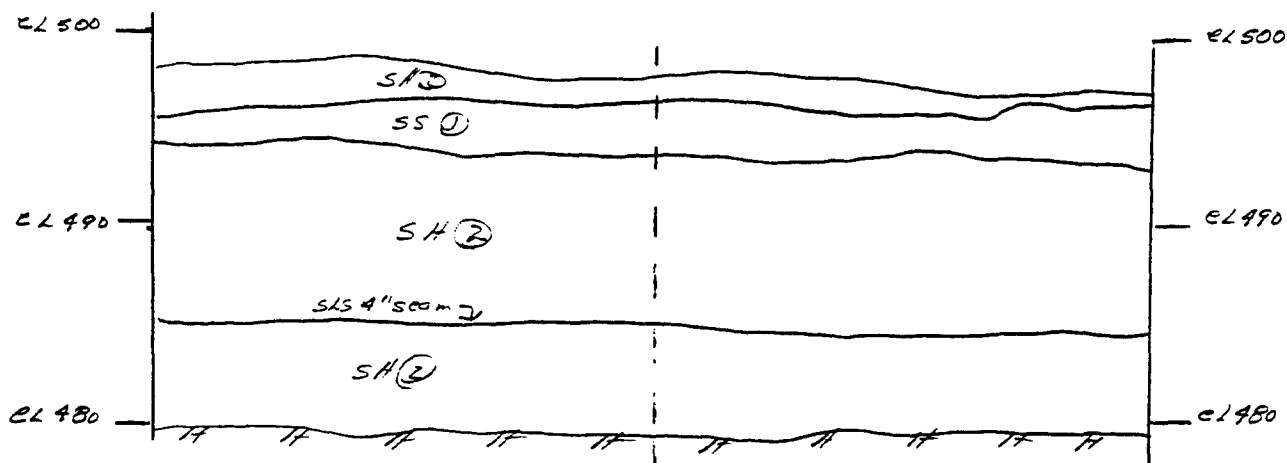
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land conduit 39,40





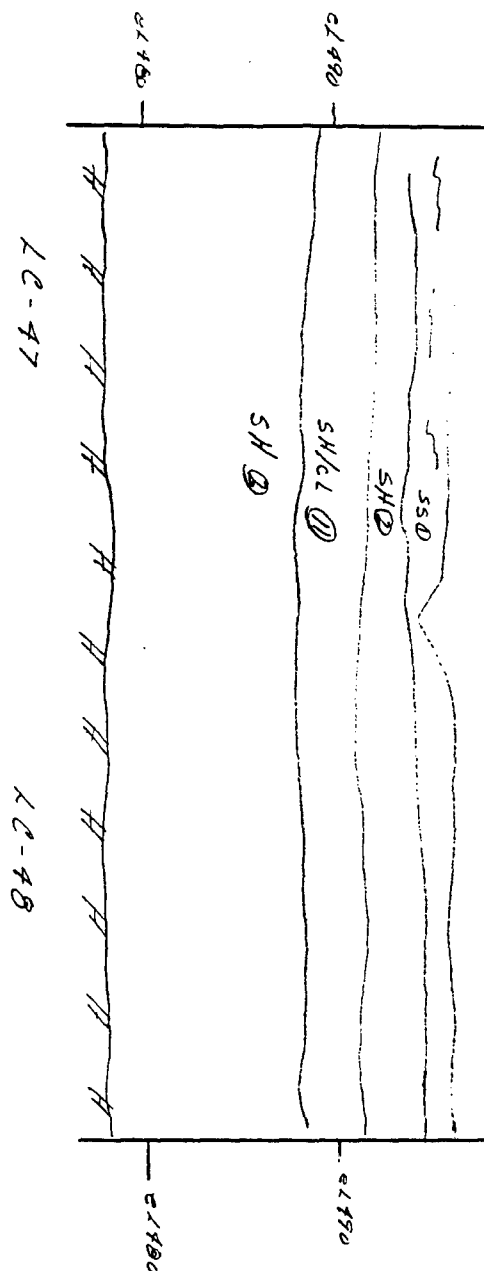
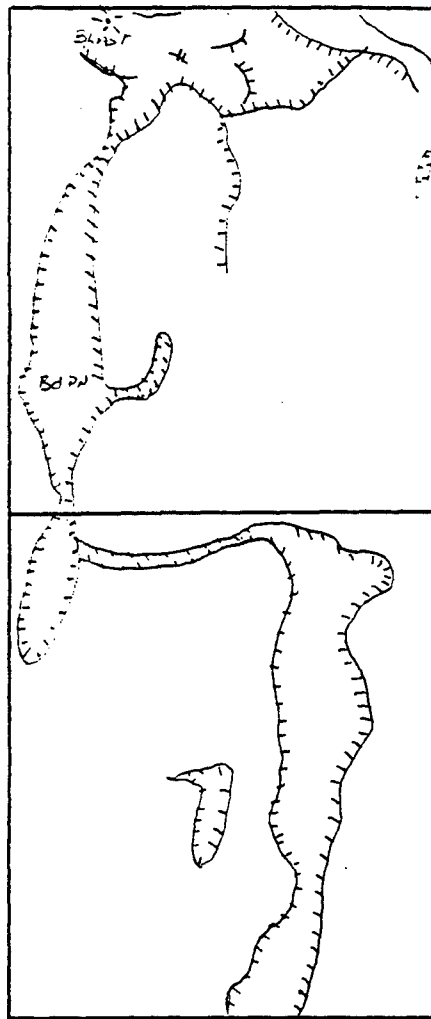
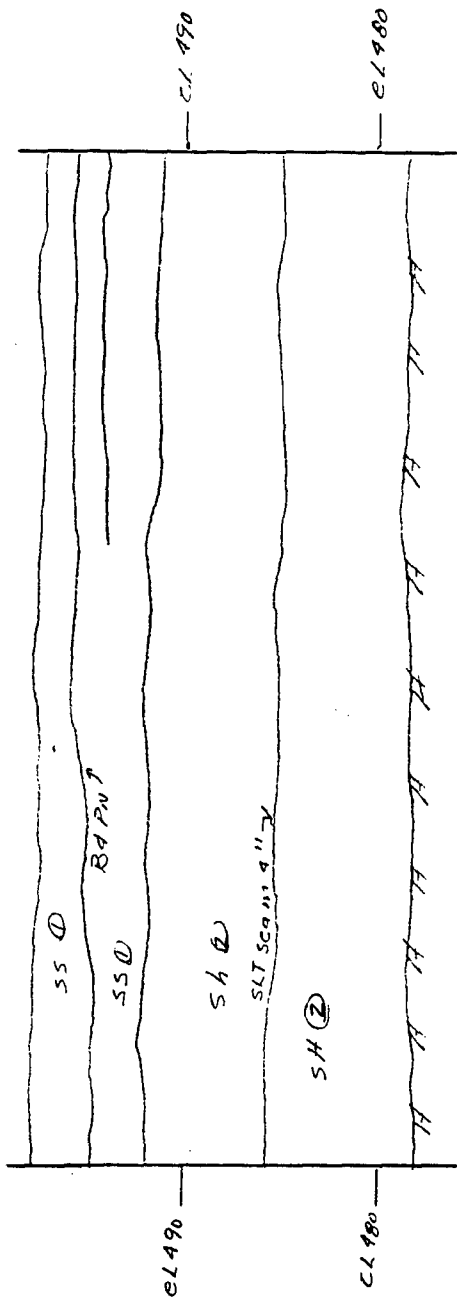
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Conduit 43,44

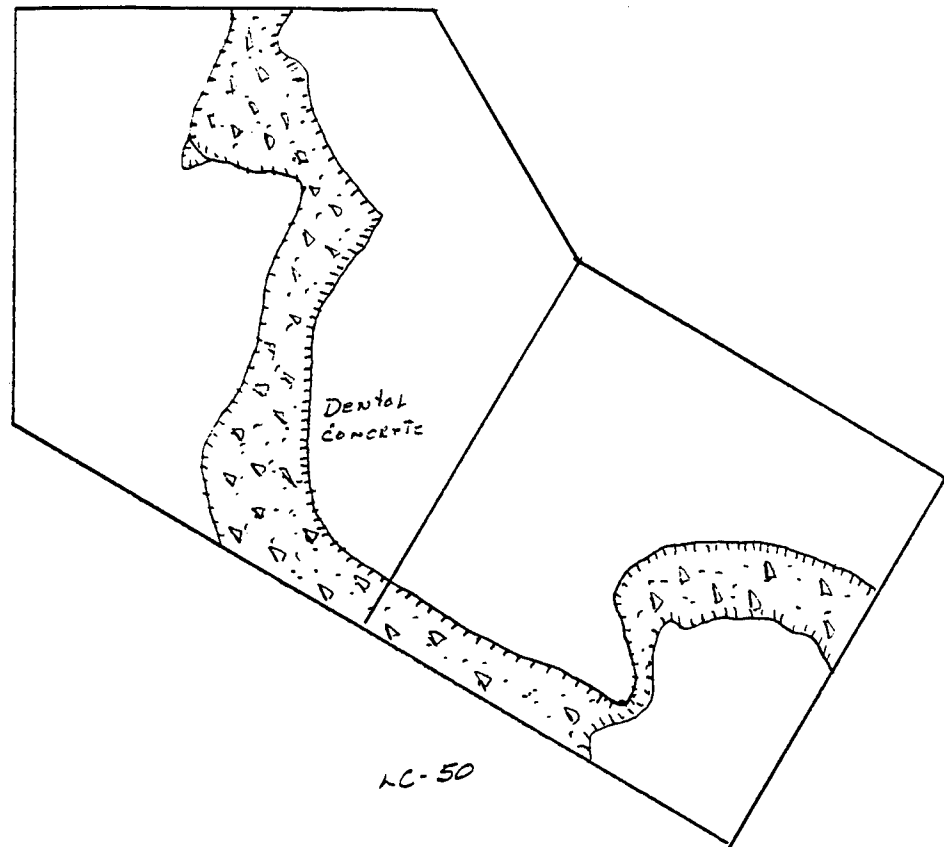


U. S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Conduit 45,46

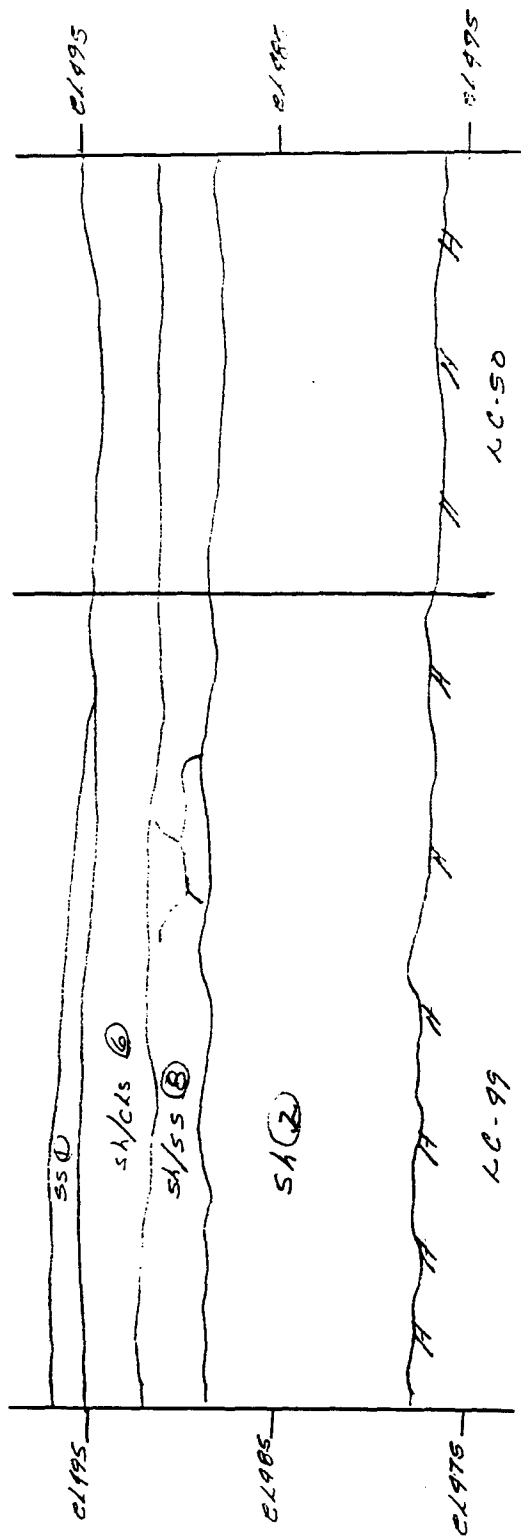
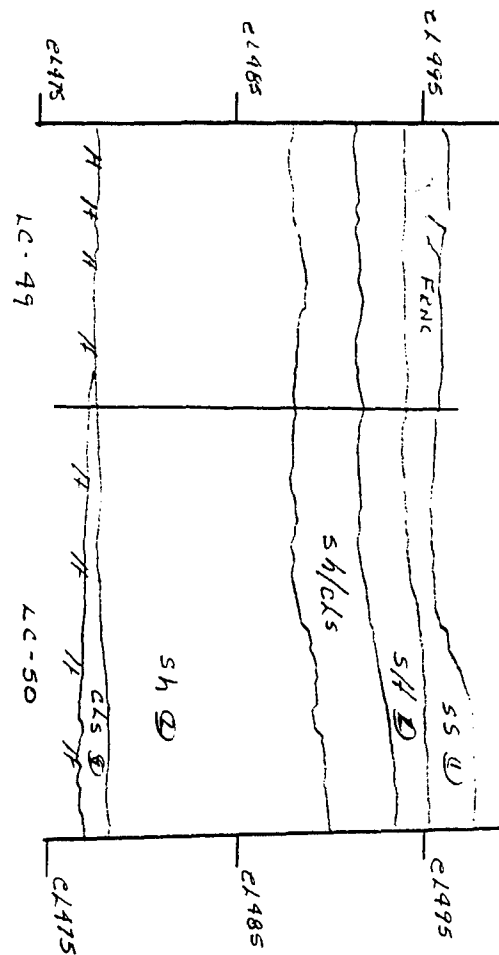


LC-49



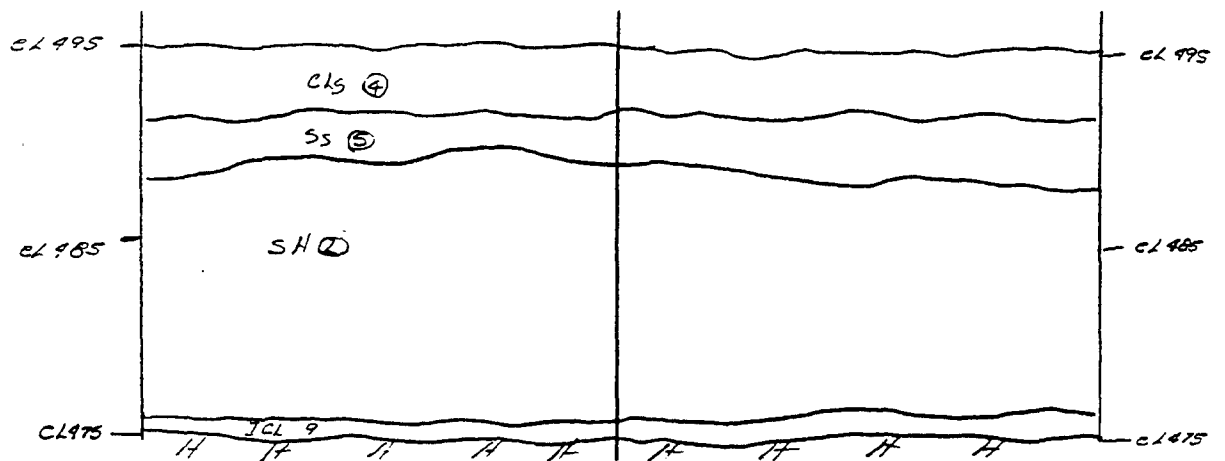
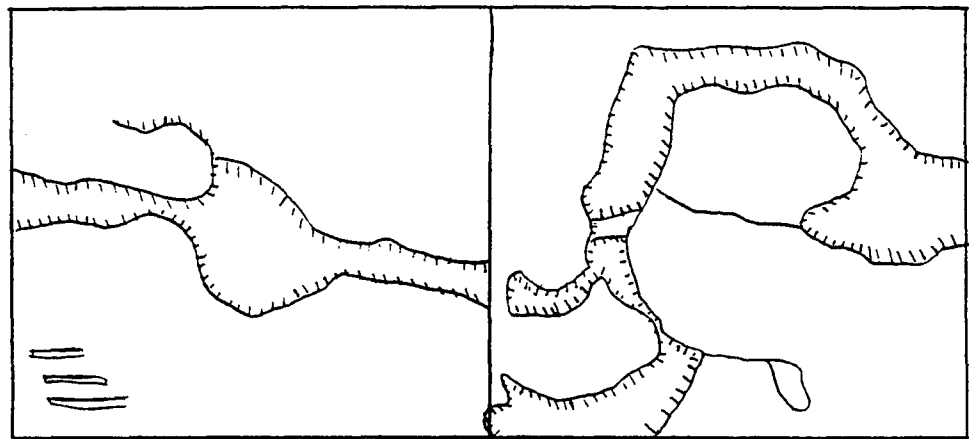
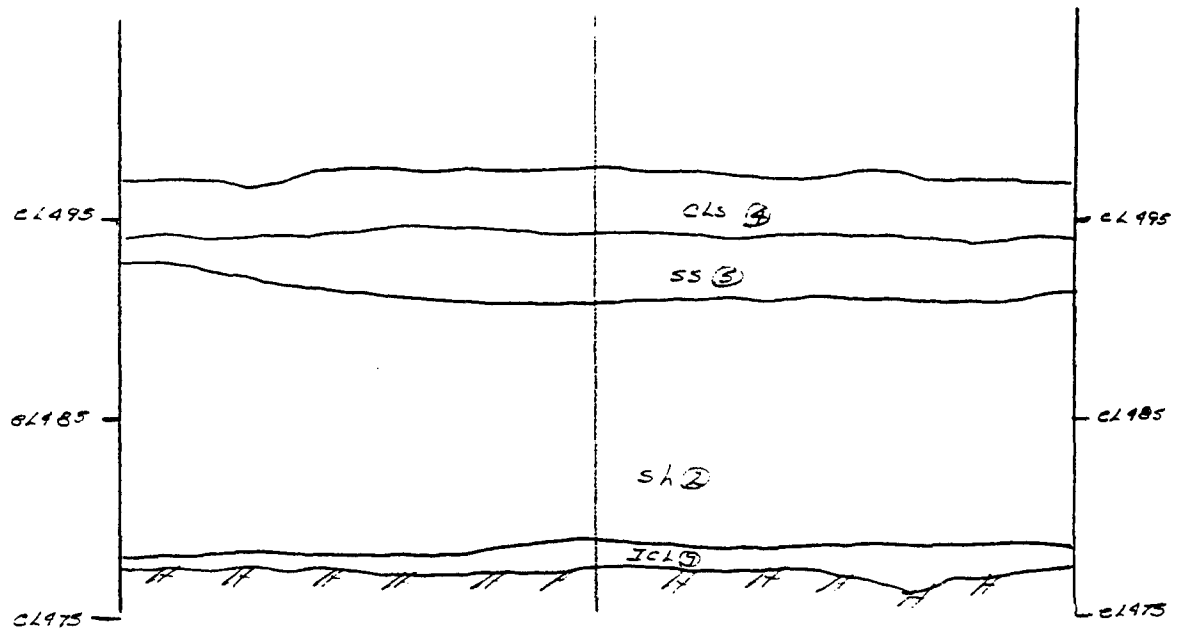
LC-50





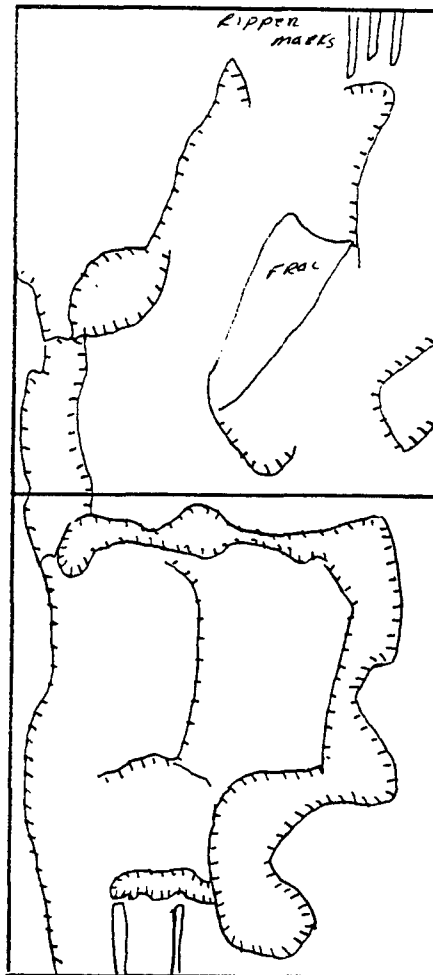
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Conduit 49,50



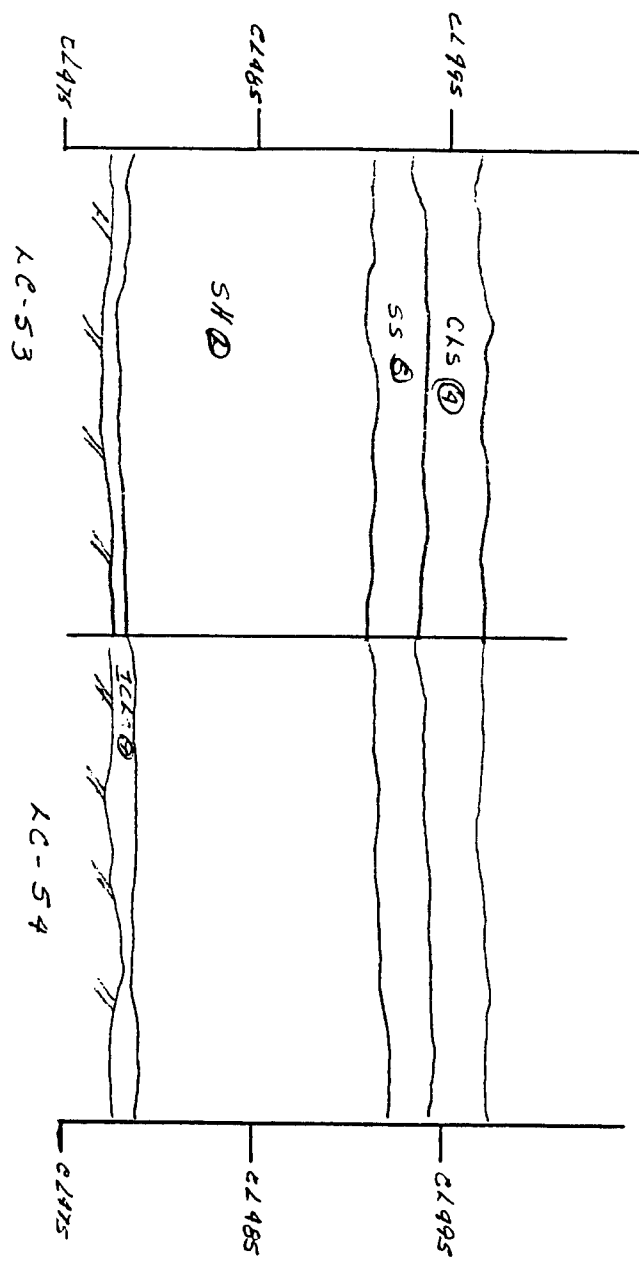
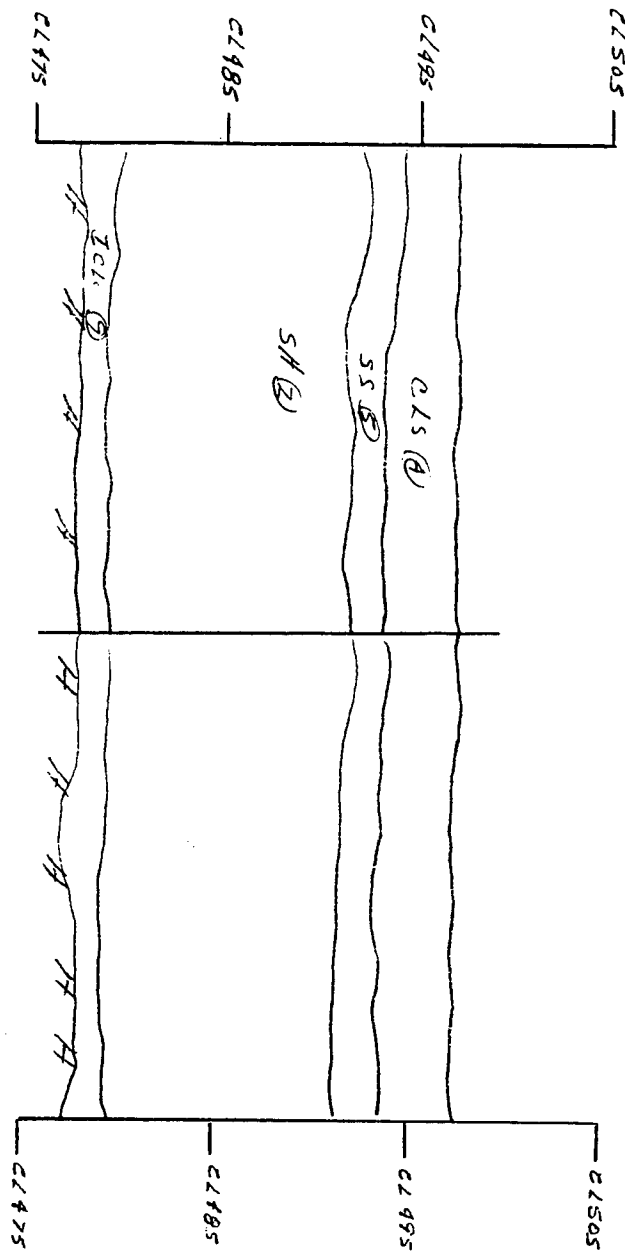
U. S. Army Corps of Engineers

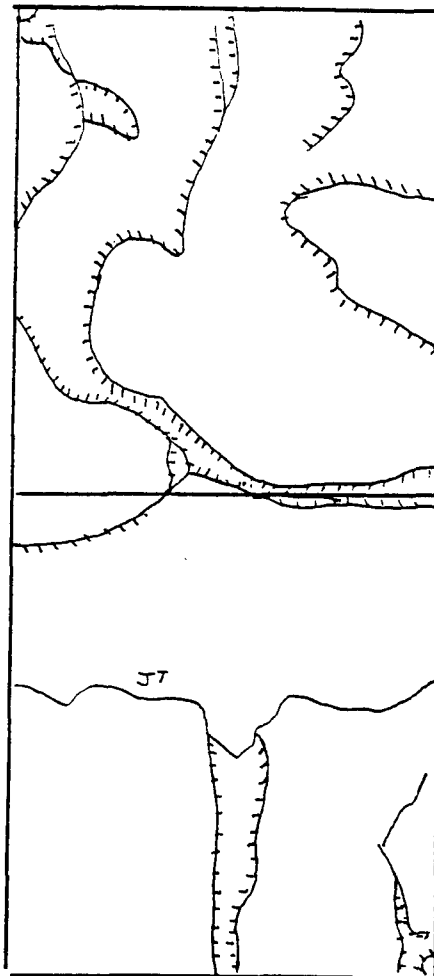
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Land Conduit 51, 52



LC-53

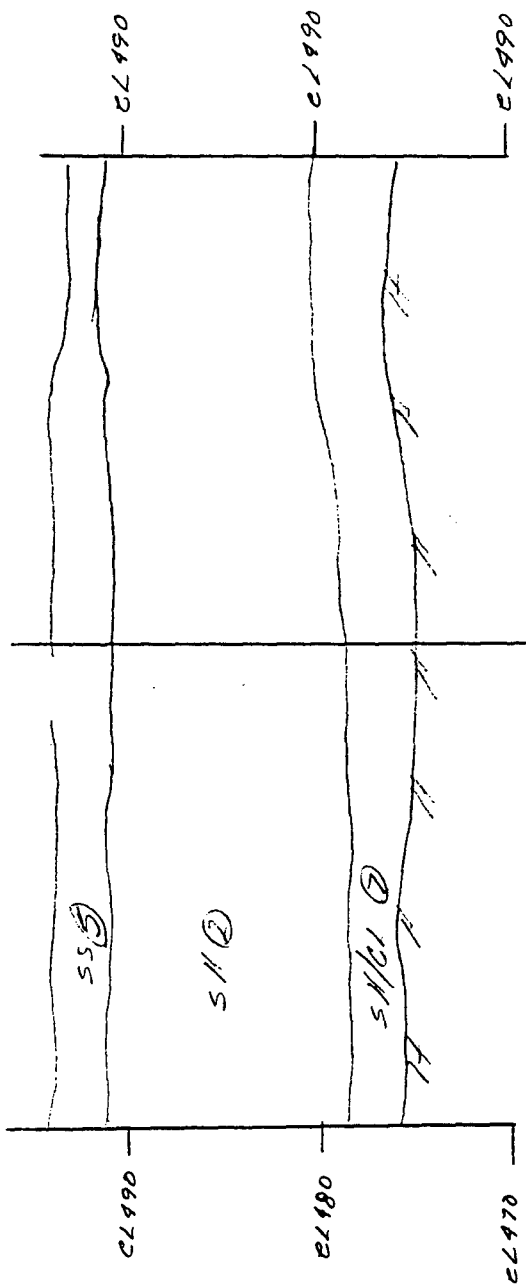
LC-54



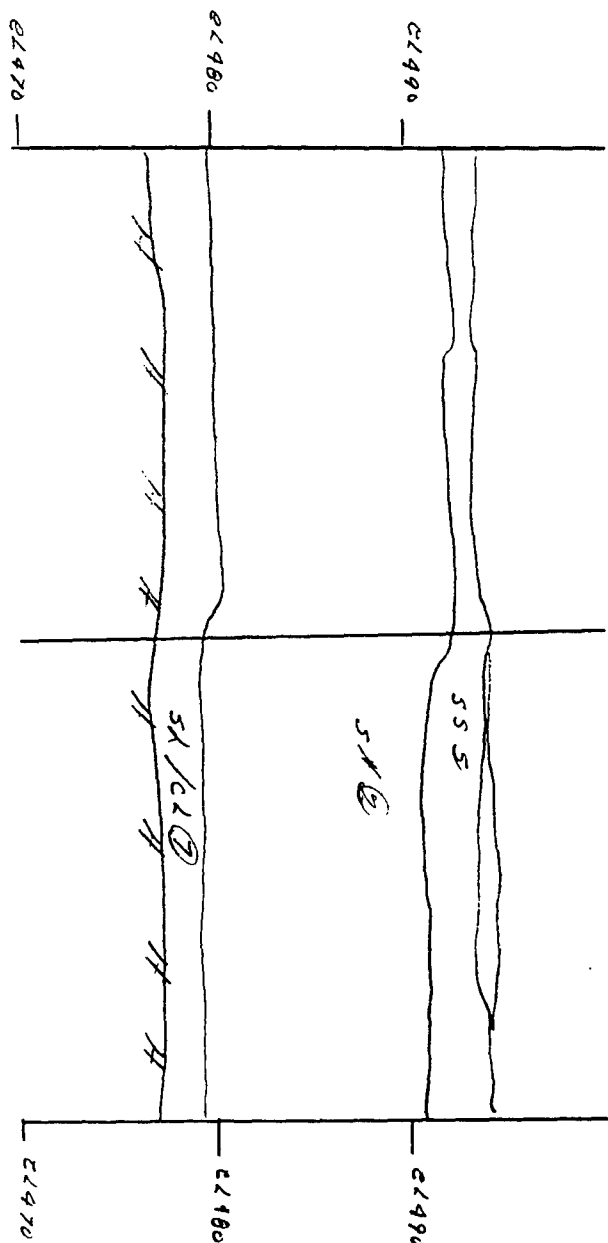


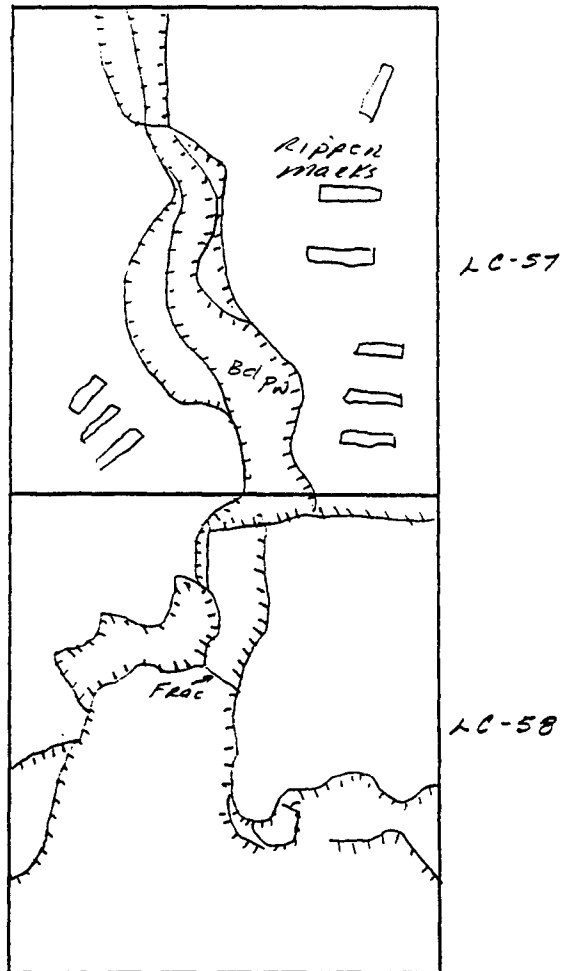
LC-55

LC-56



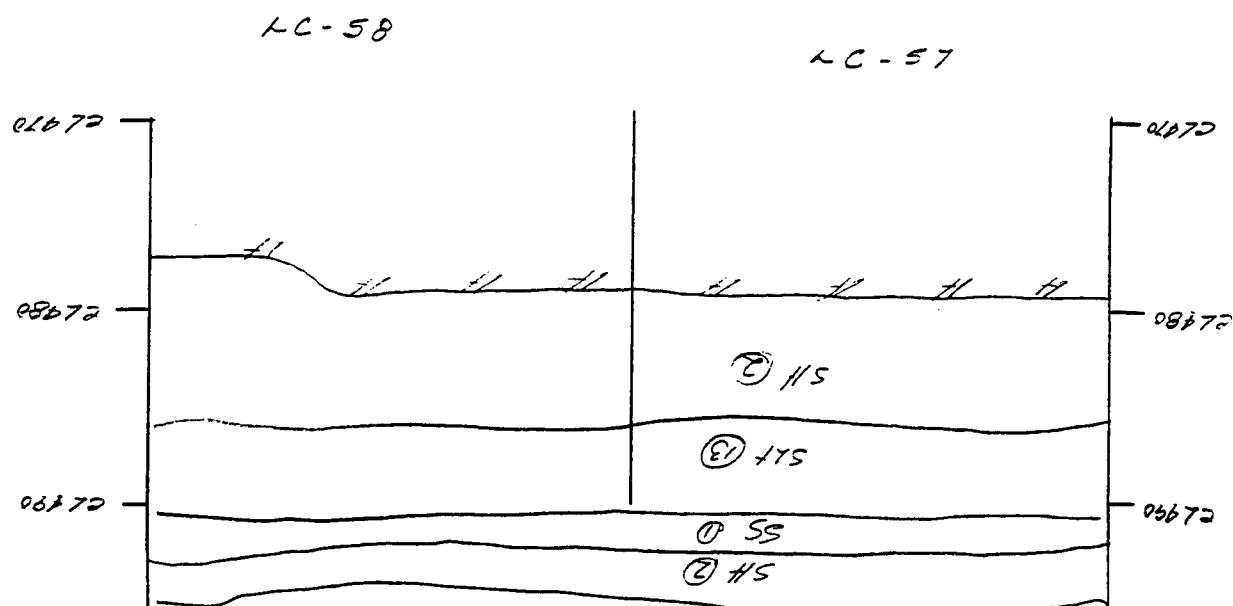
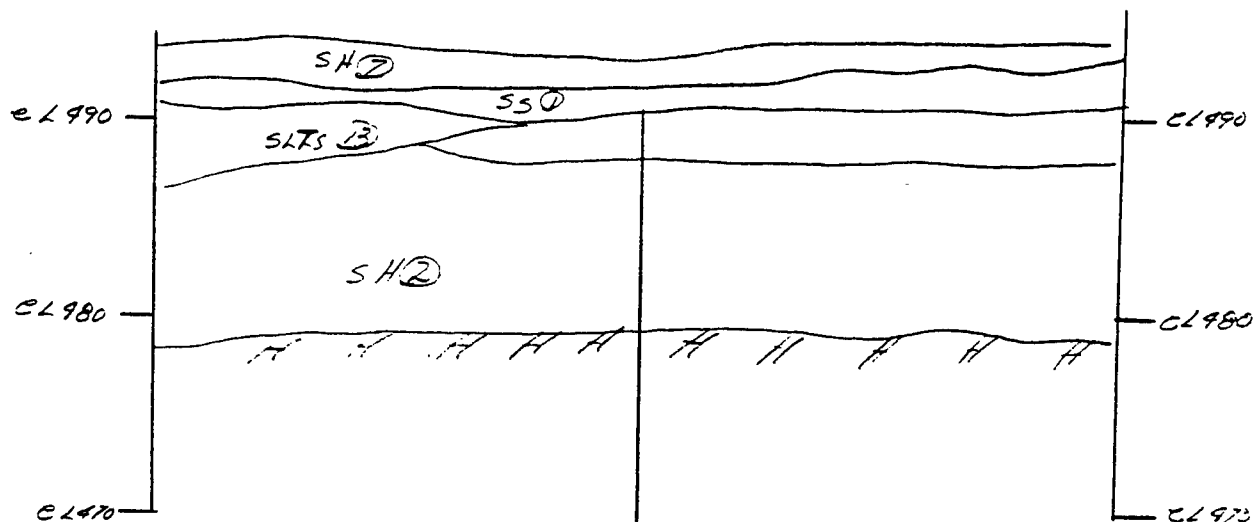
LC-55  
East Wall  
West Wall  
LC-56



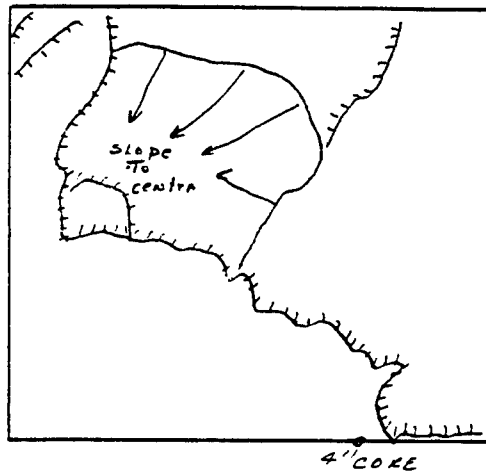
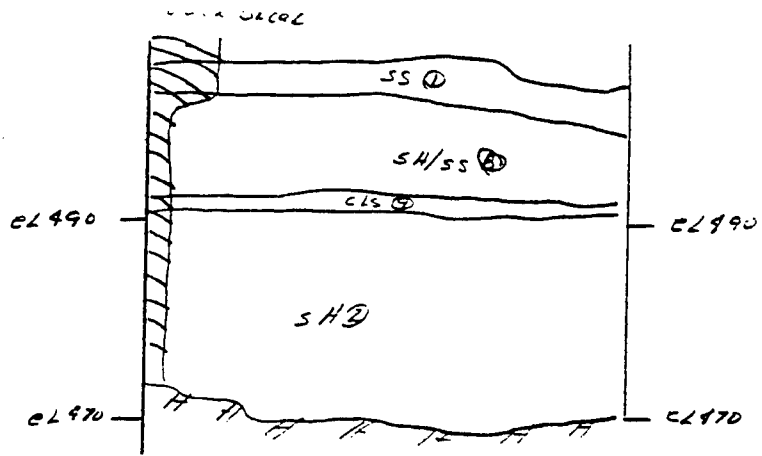


U.S. Army Corps of Engineers

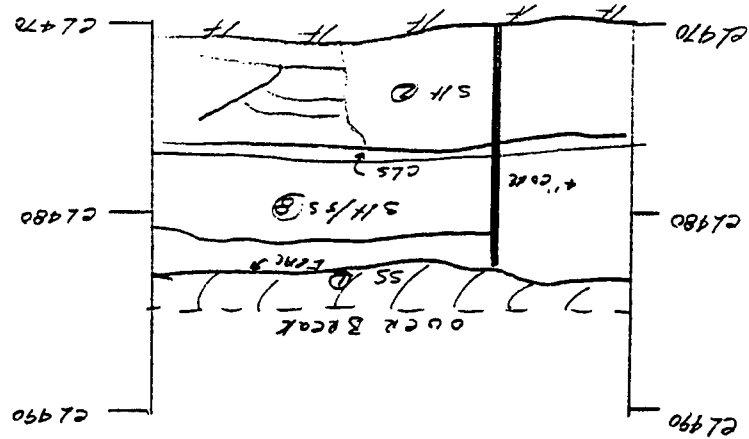
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Land Conduit 57,58





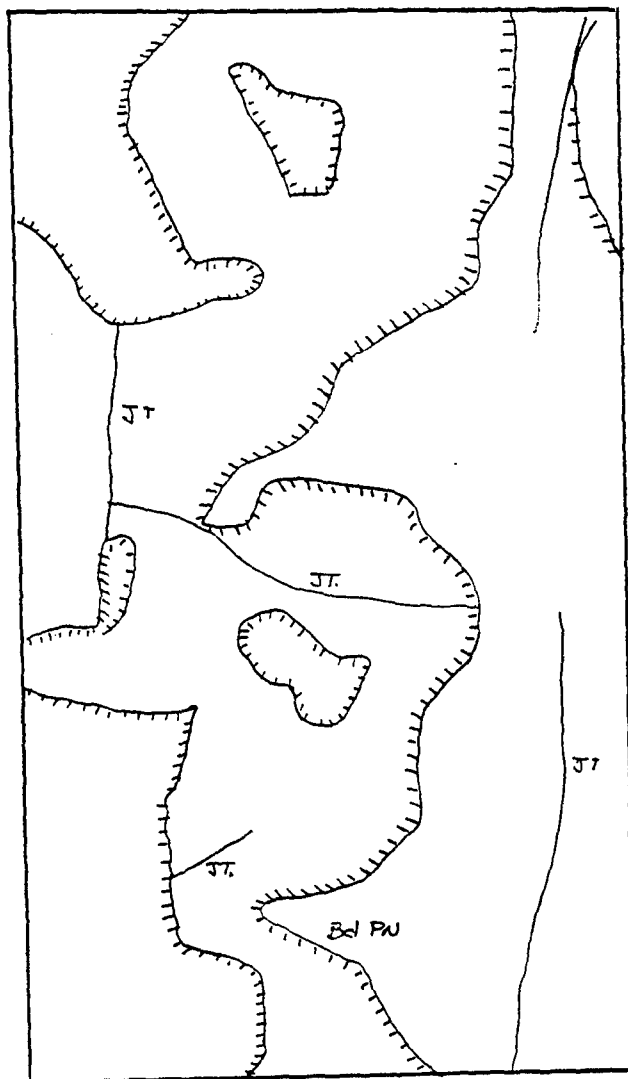


LC-59

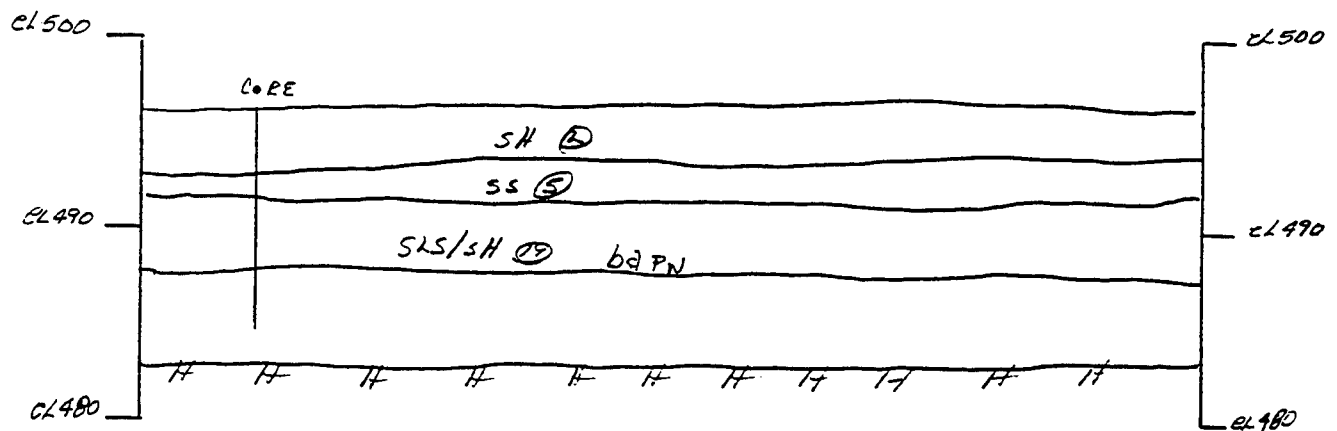
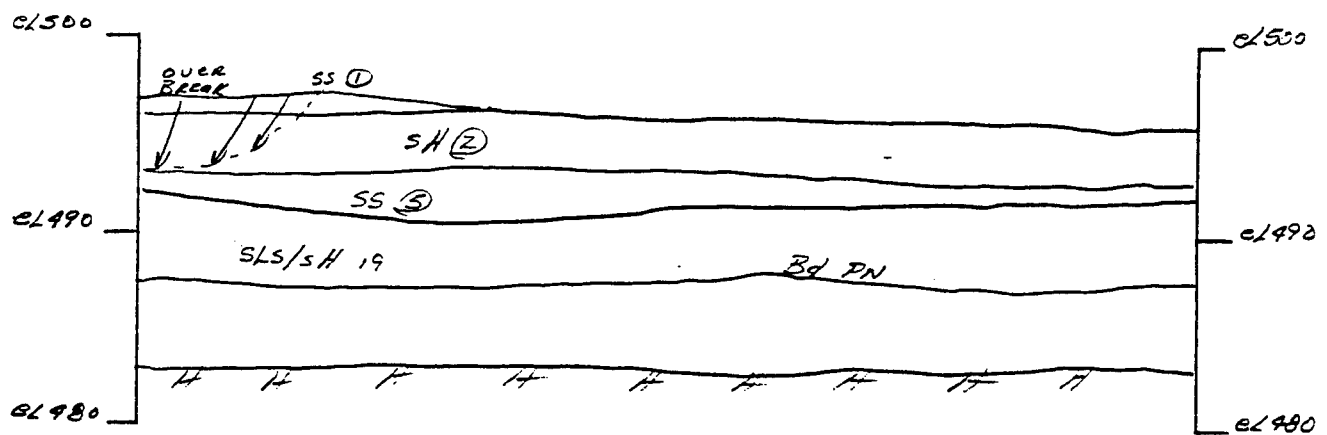
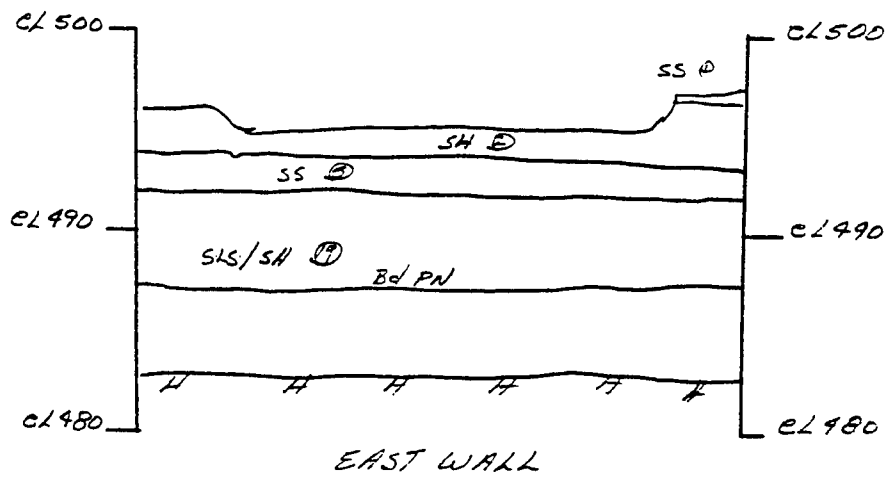


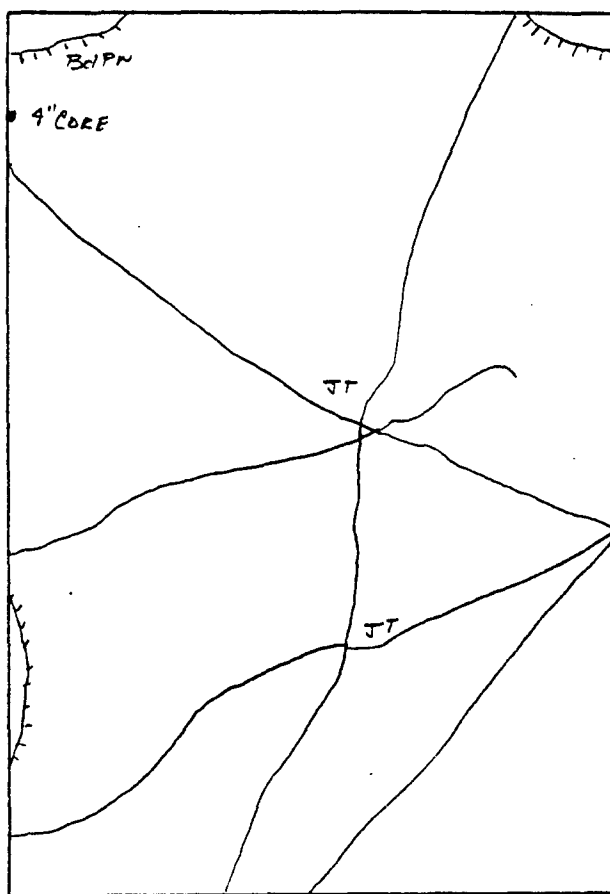
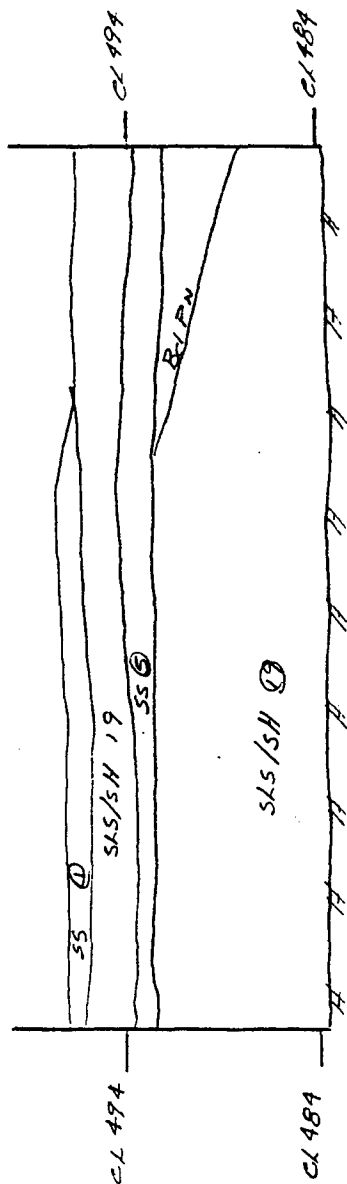
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Landwall Conduit 59

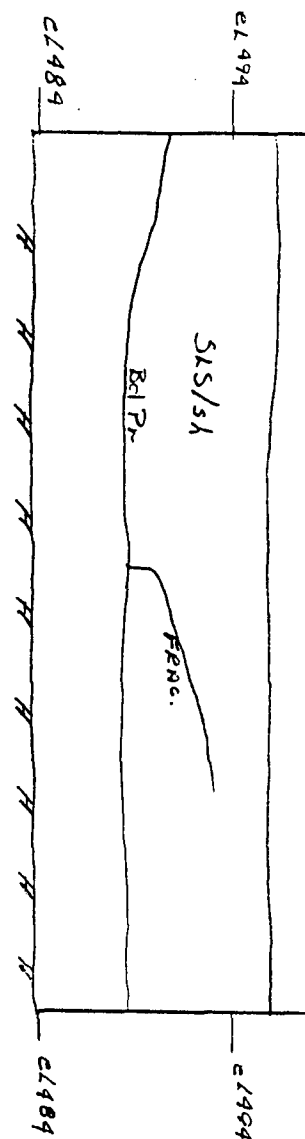


RI-1



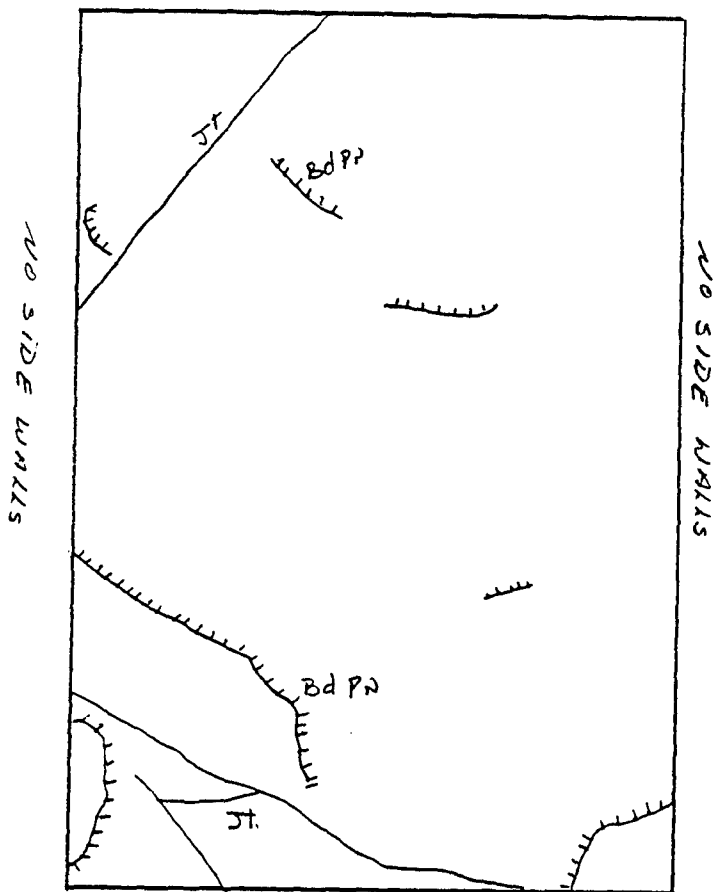


RI-2

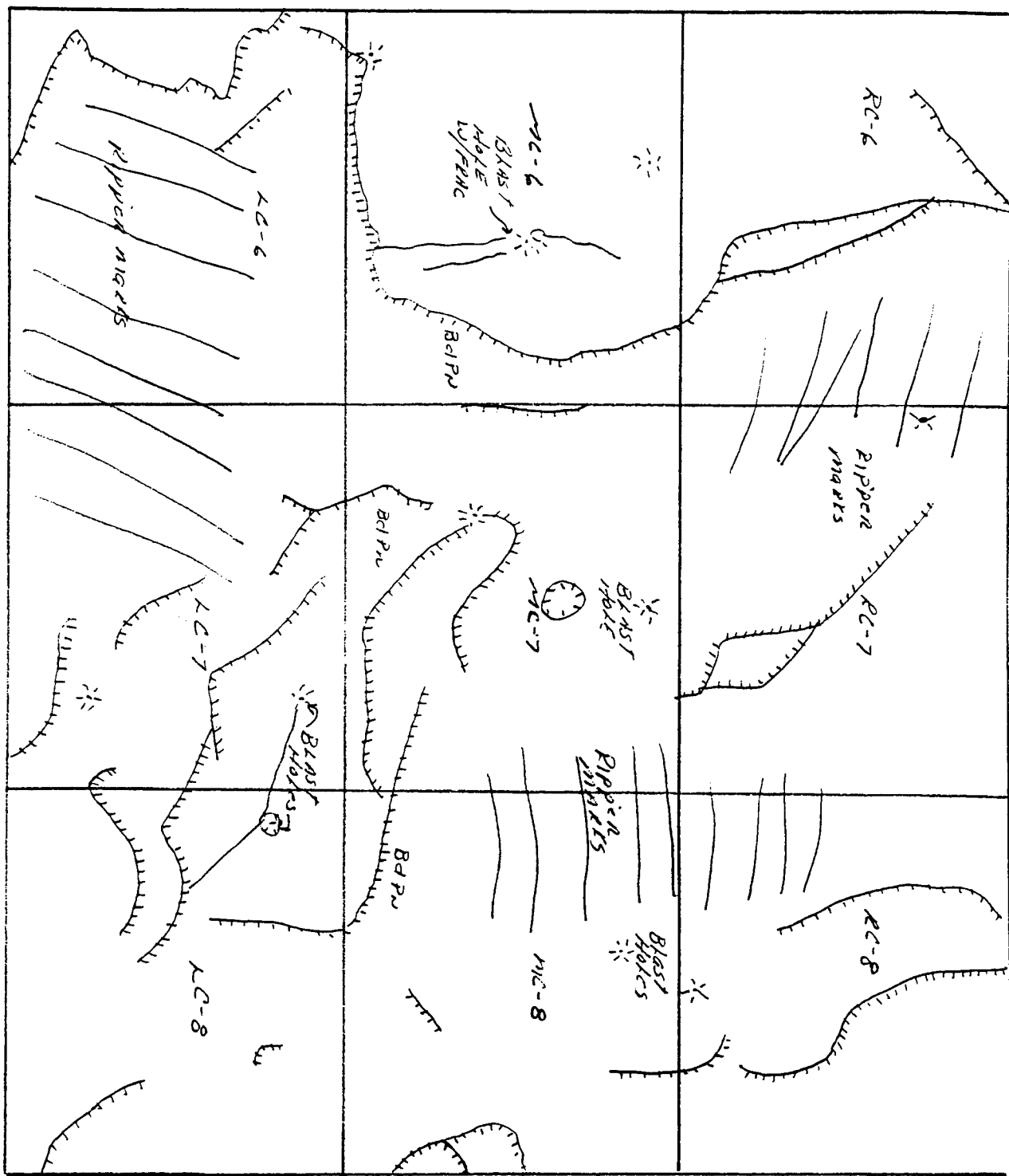


U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
River Inlet Monolith 2

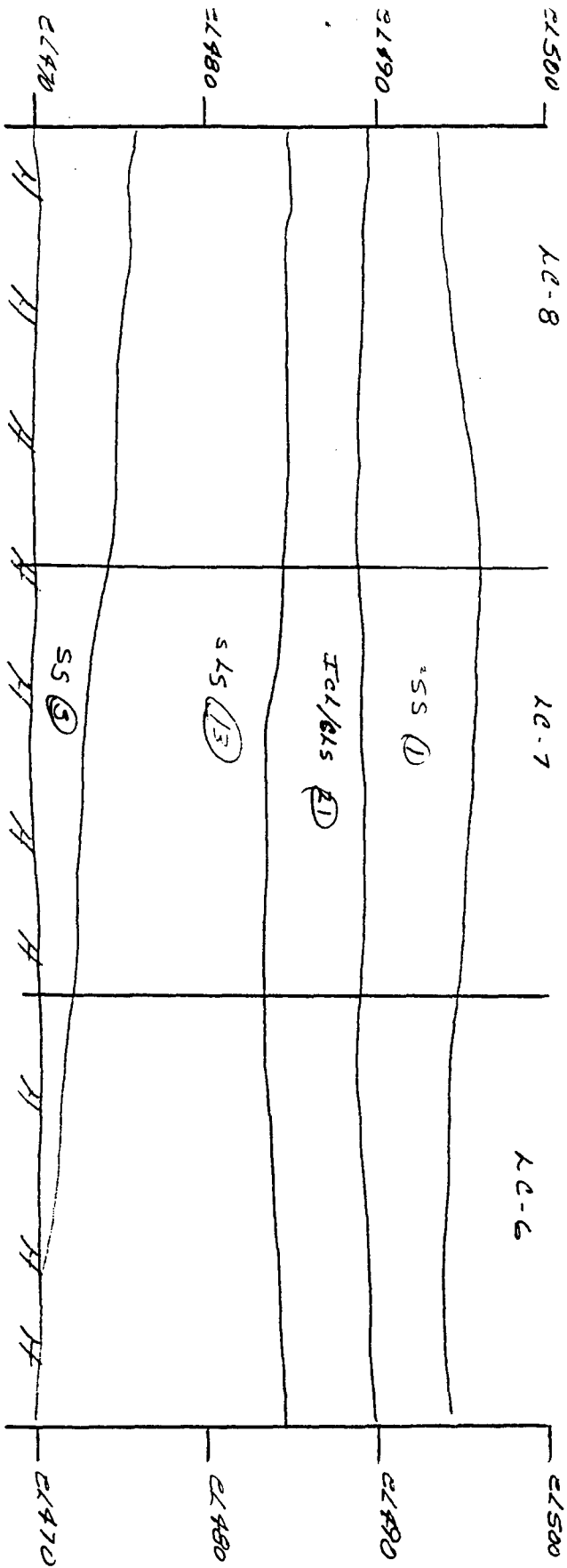
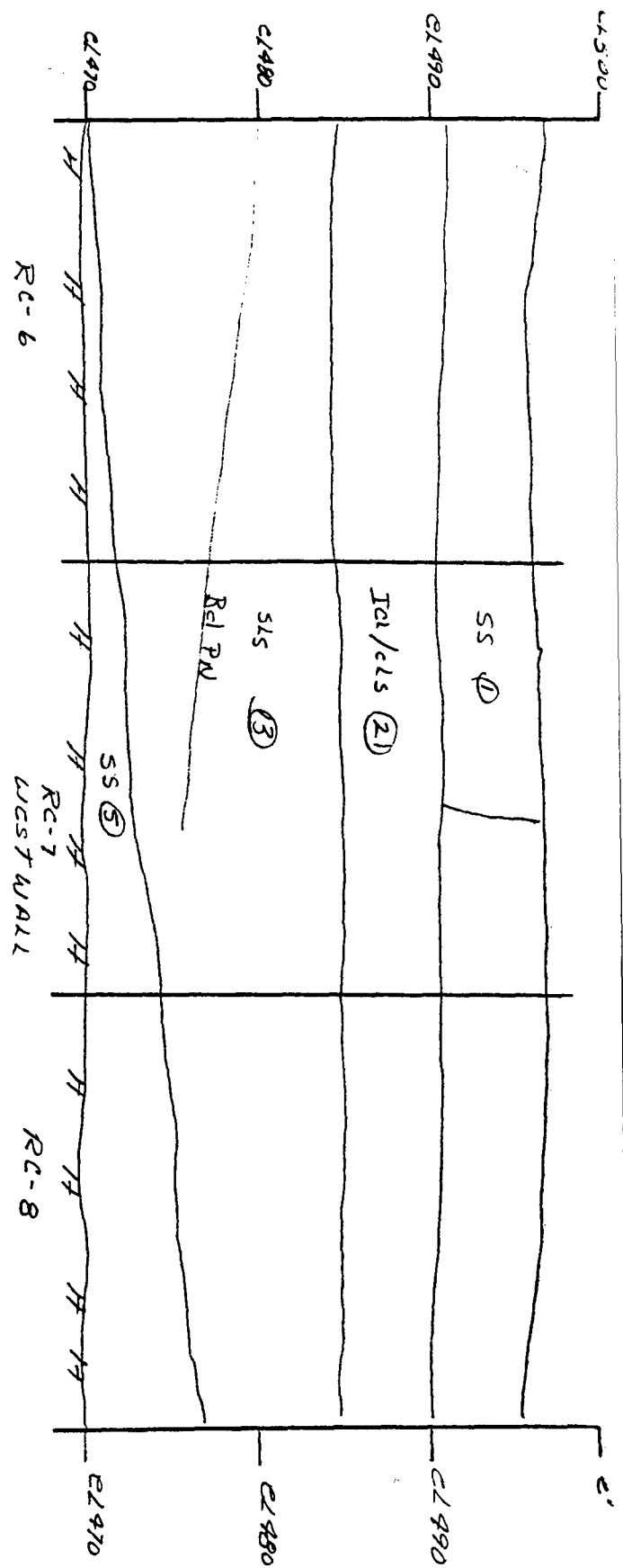


RI-3



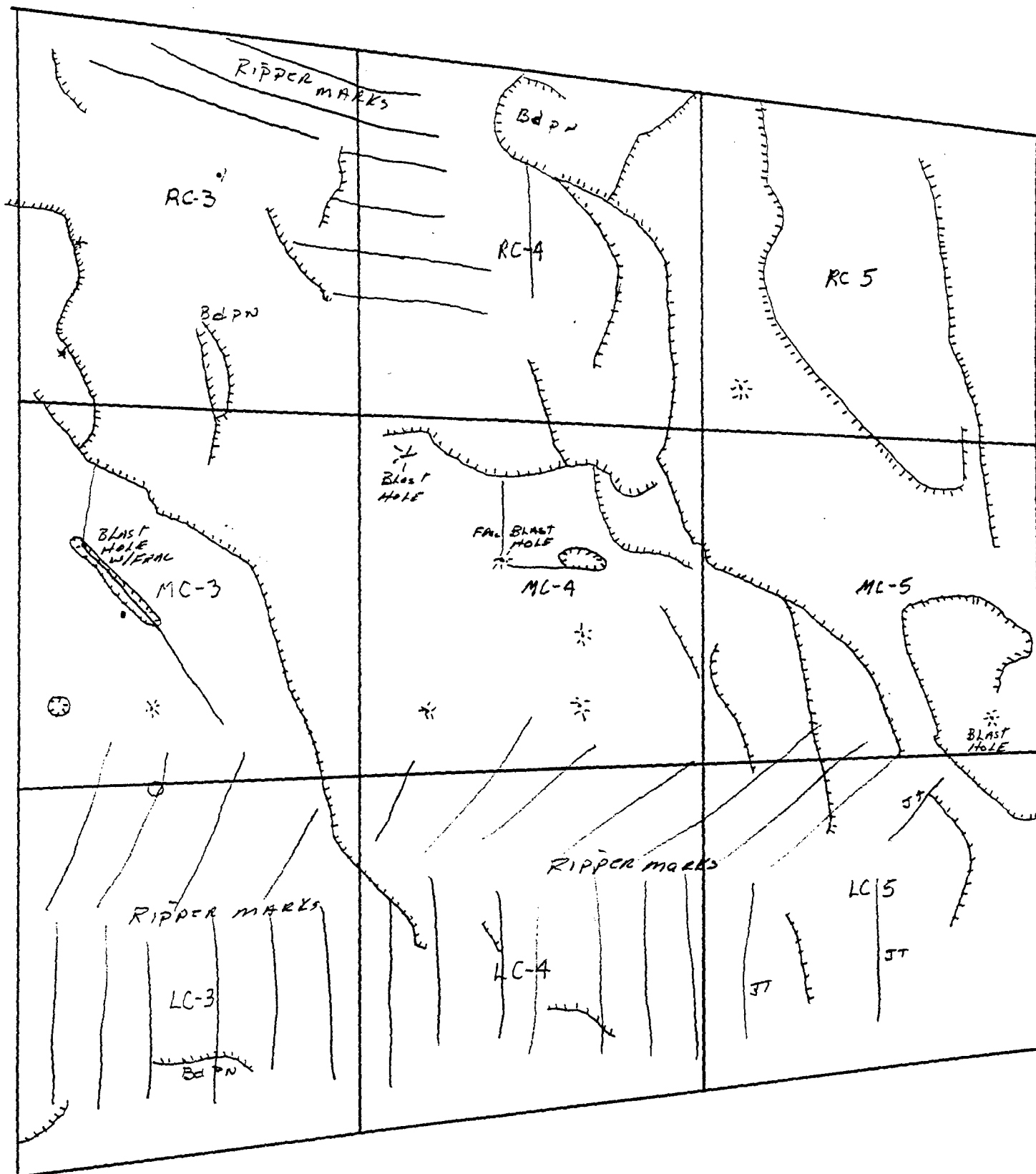
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Outlet Conduit



U.S. Army Corps of Engineers

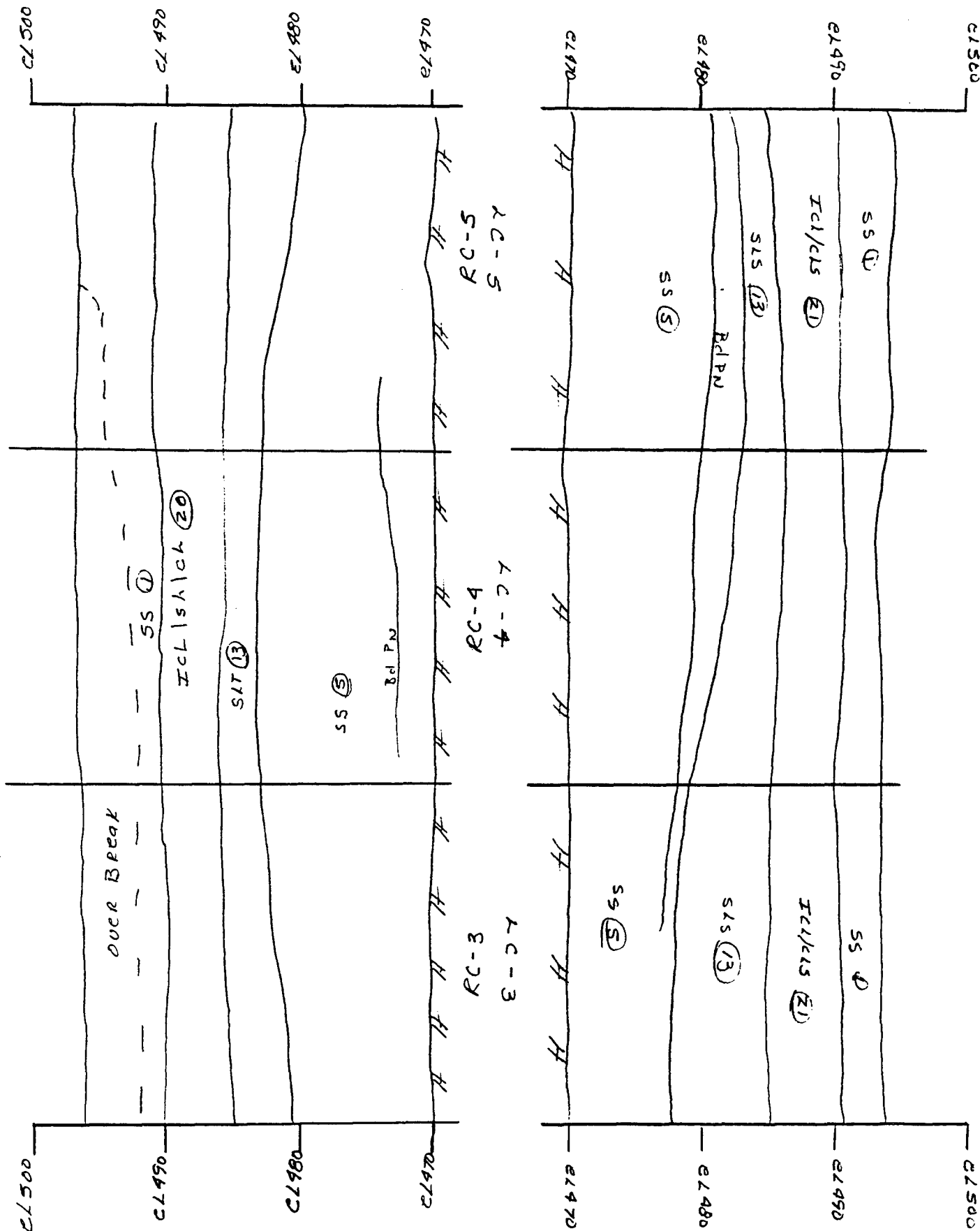
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Outlet Conduit



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Outlet Conduit

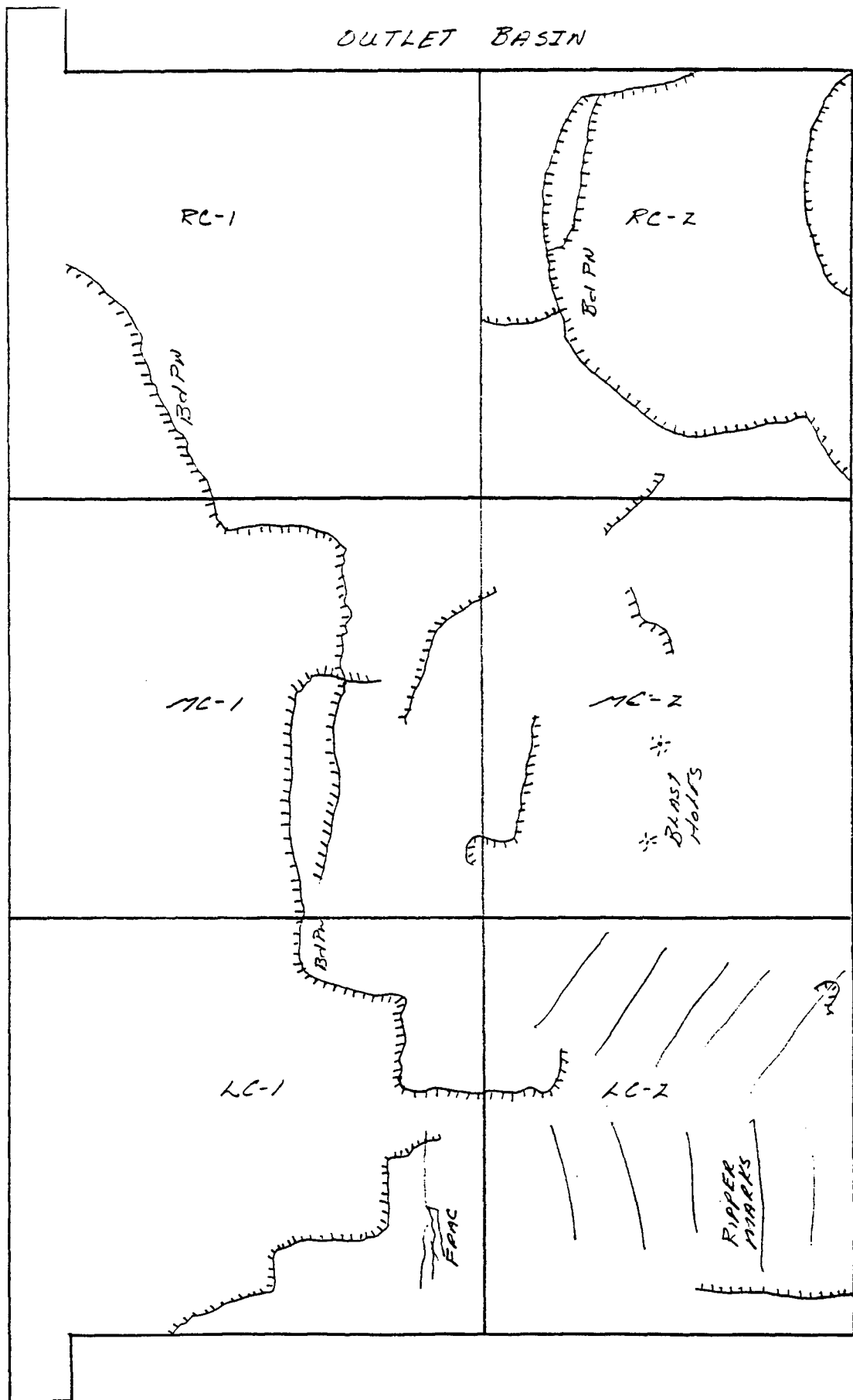




U.S. Army Corps of Engineers

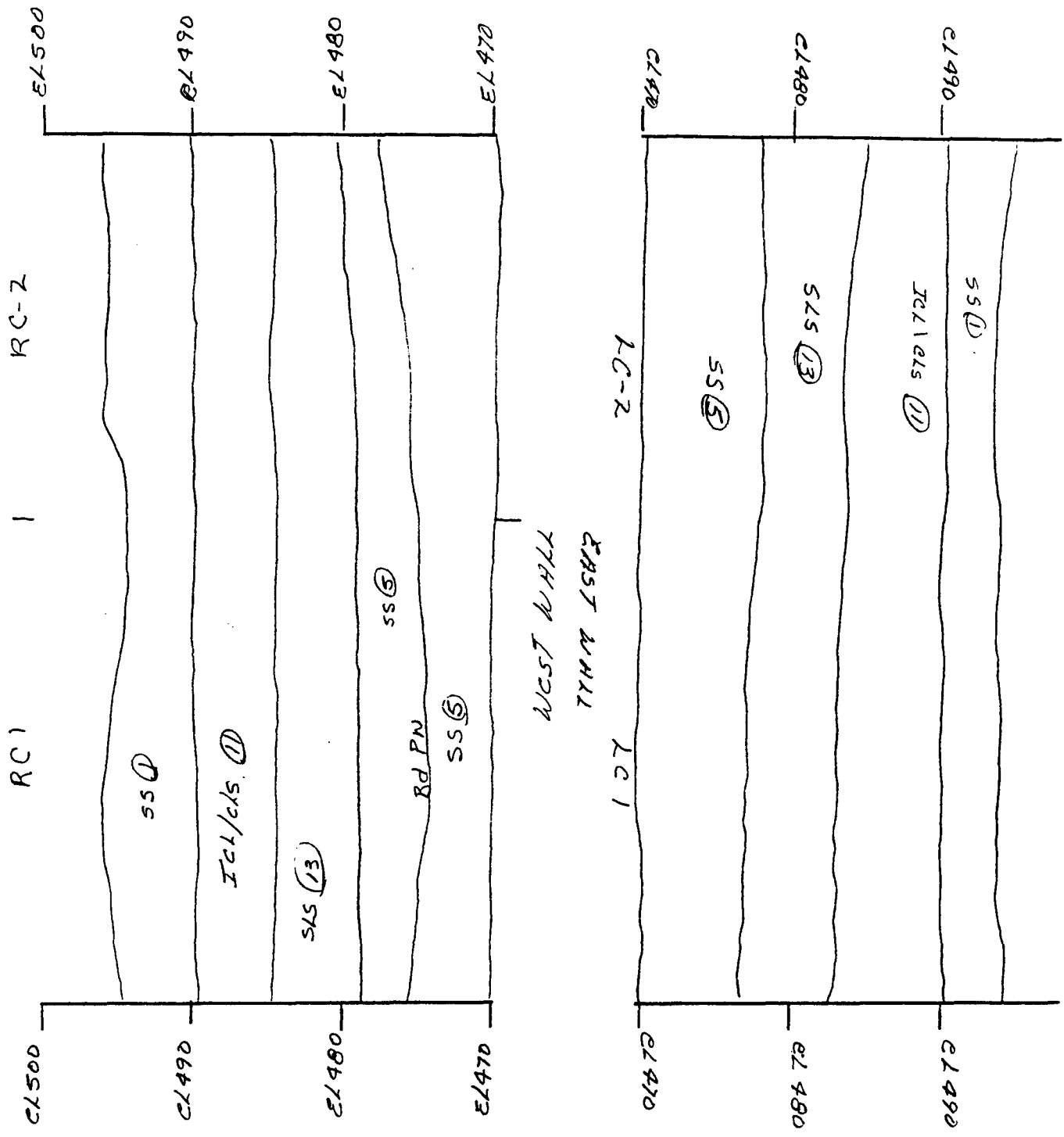
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Outlet Conduit

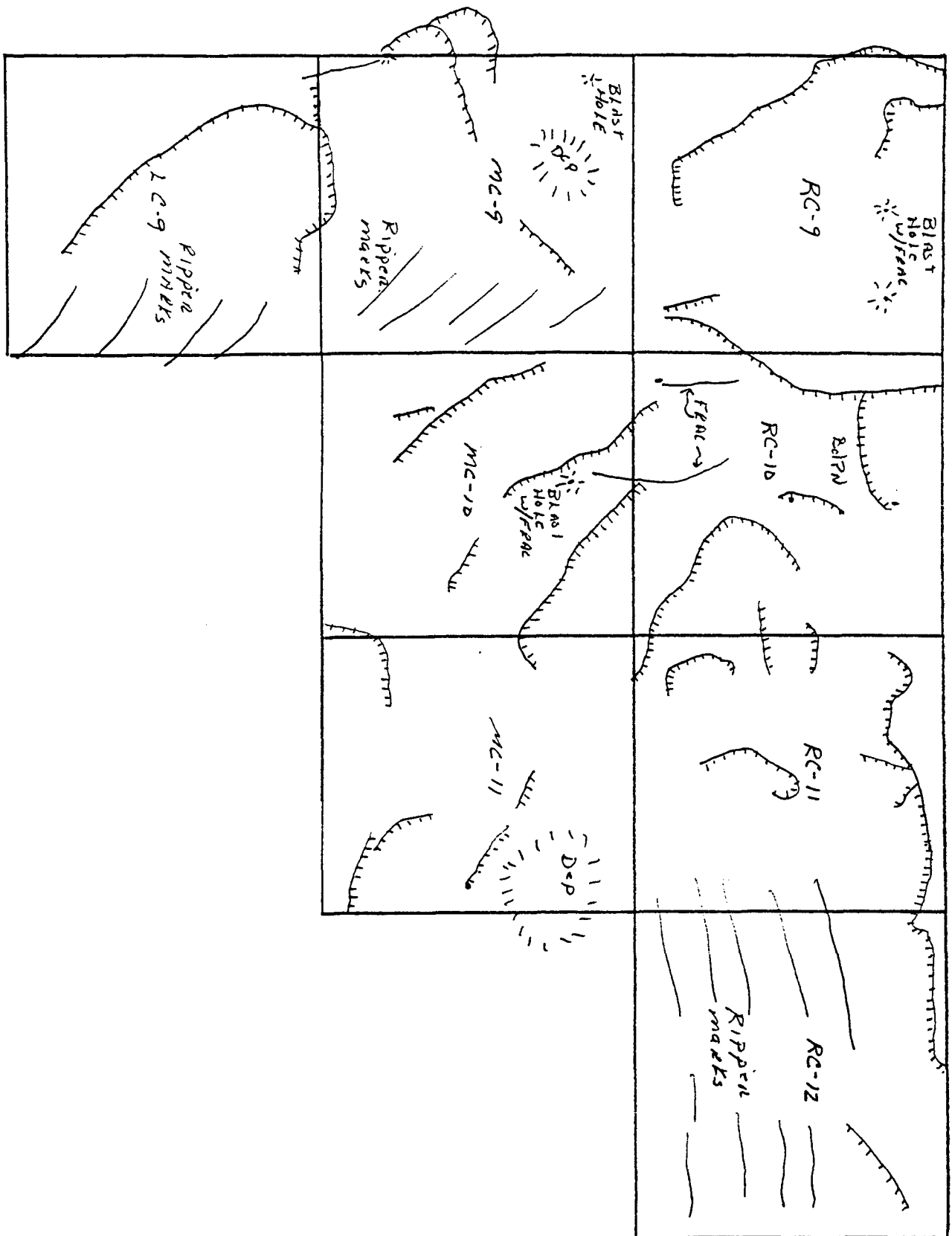
# OUTLET BASIN



U.S. Army Corps of Engineers

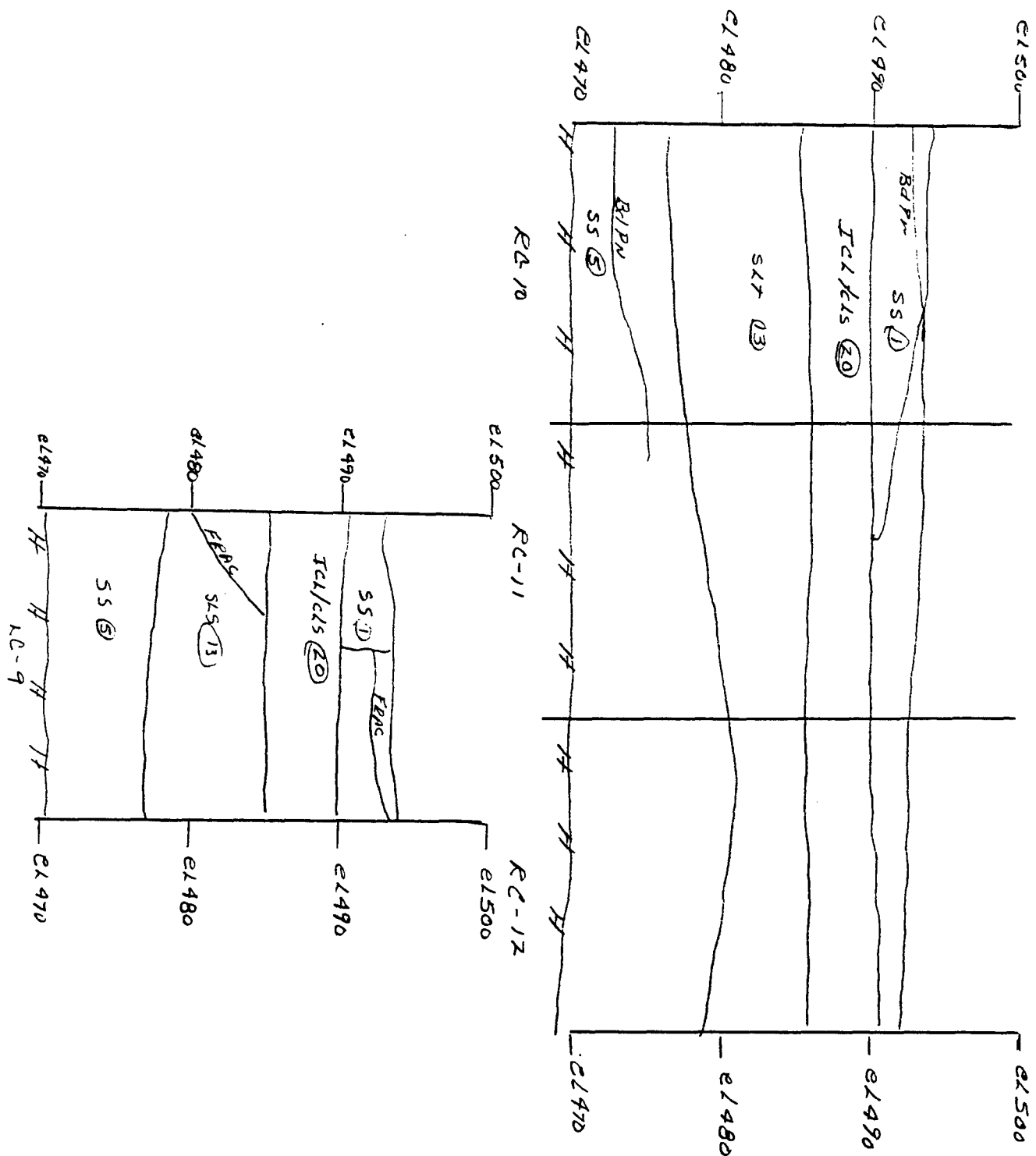
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Outlet Conduit





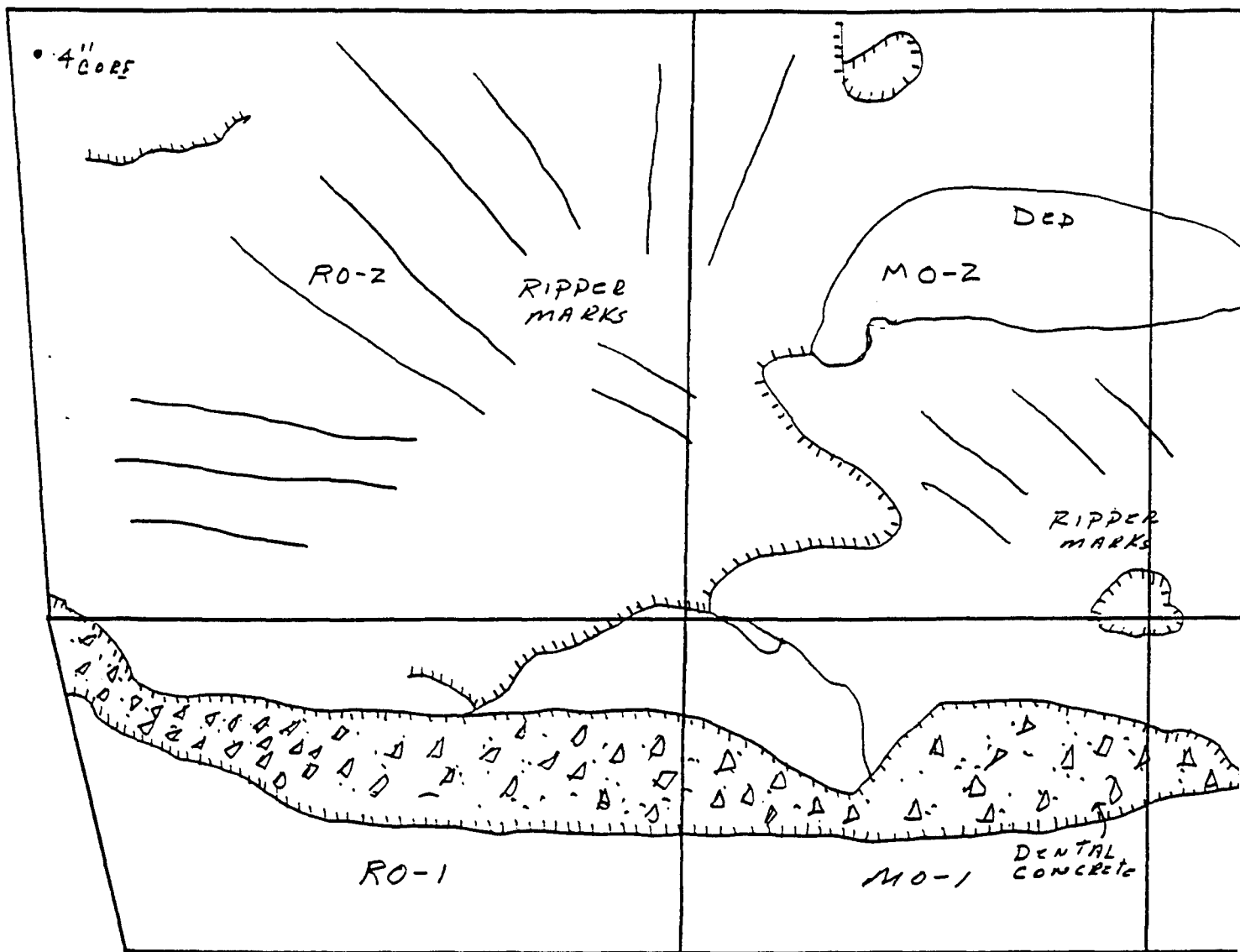
U.S. Army Corps of Engineers

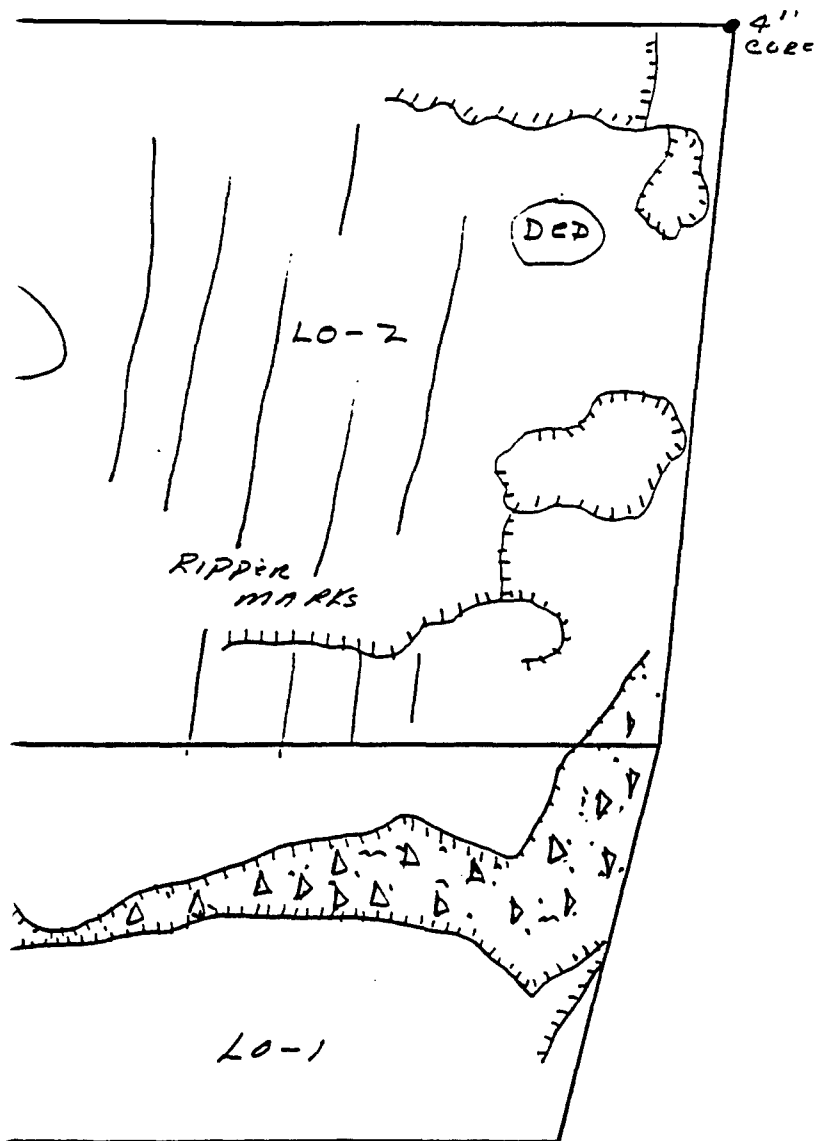
Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Outlet Conduit



U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Outlet Conduit





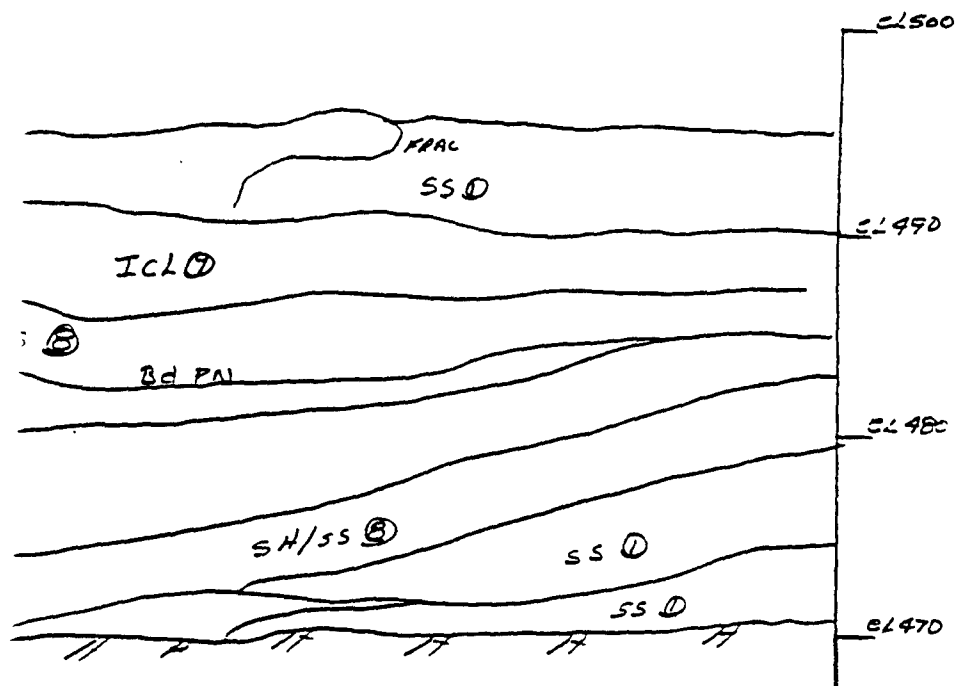
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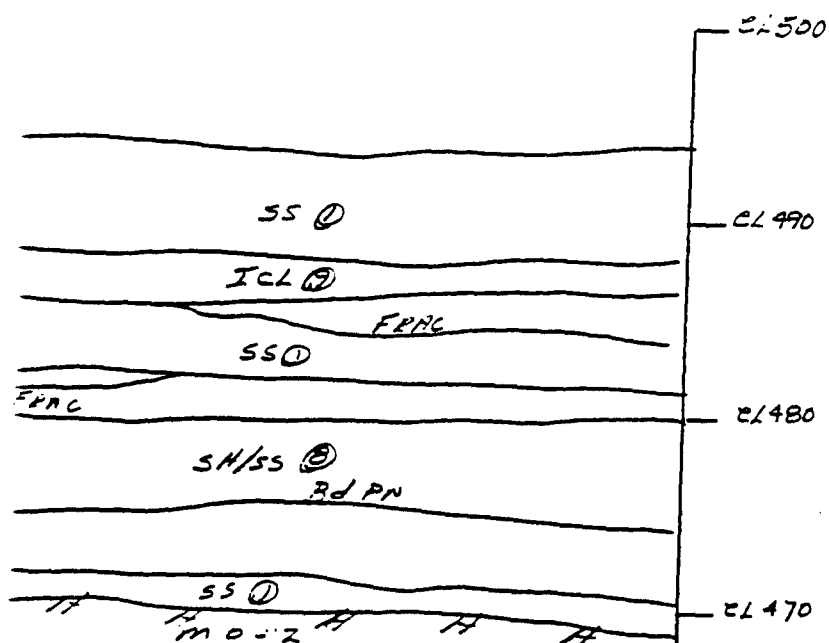
U.S. Army Corps of Engineers
Gallipolis Lock and Dam Lock in Canal Foundation Drawing Outlet Conduit







EAST FACE

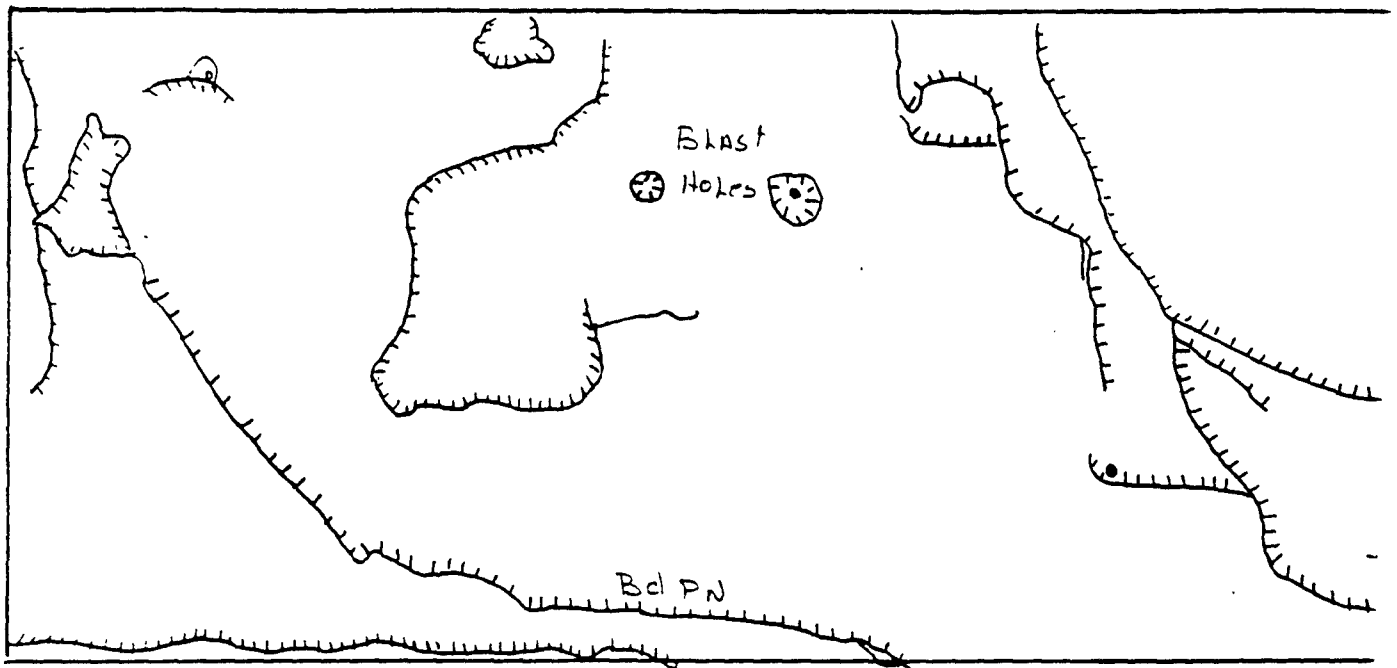
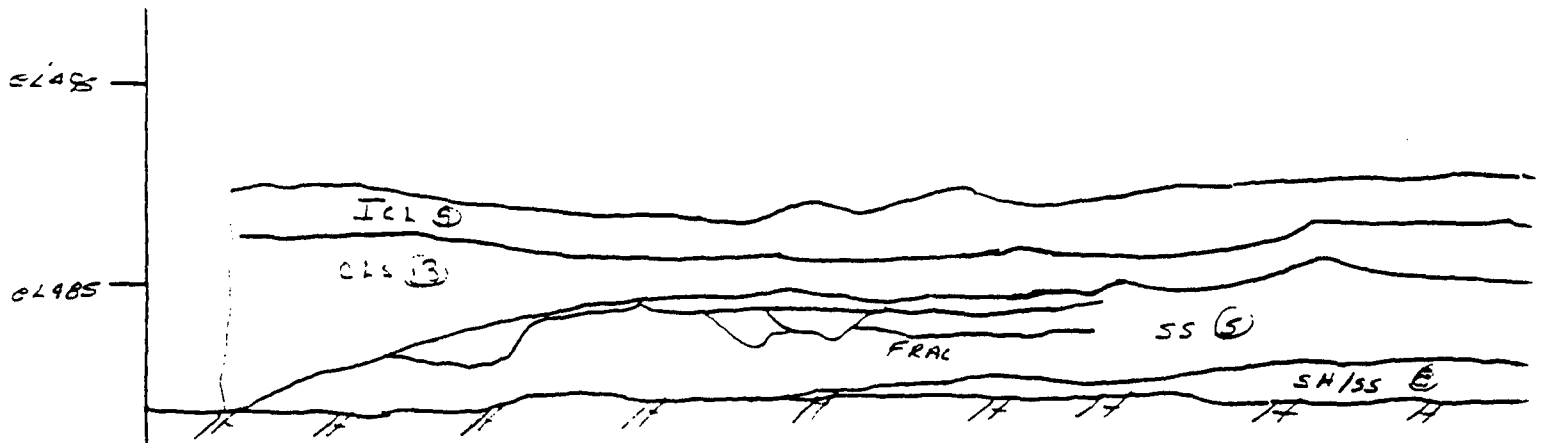


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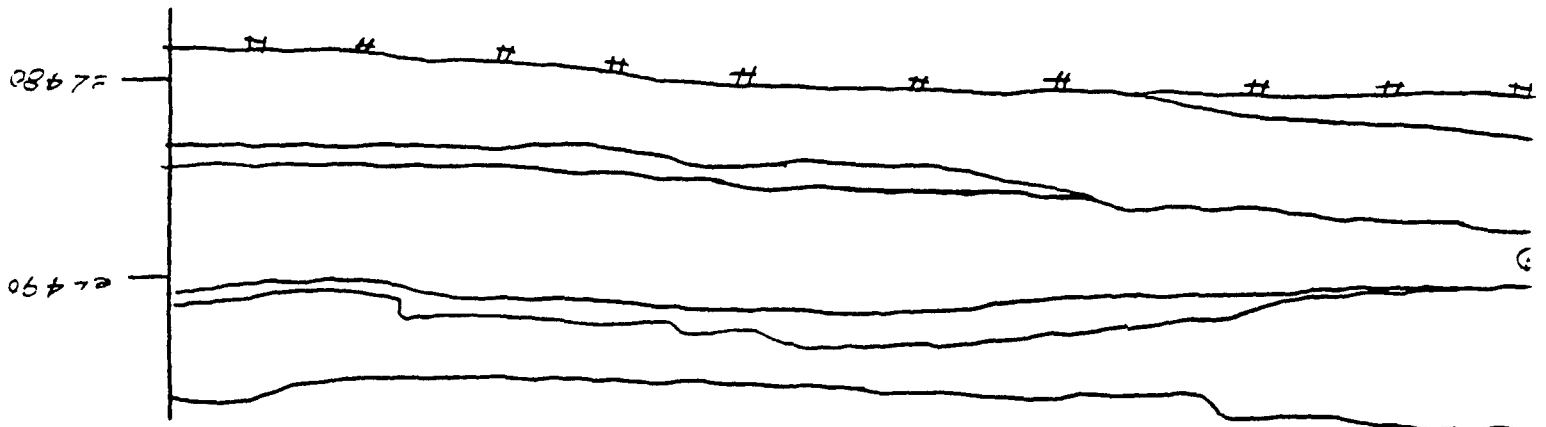
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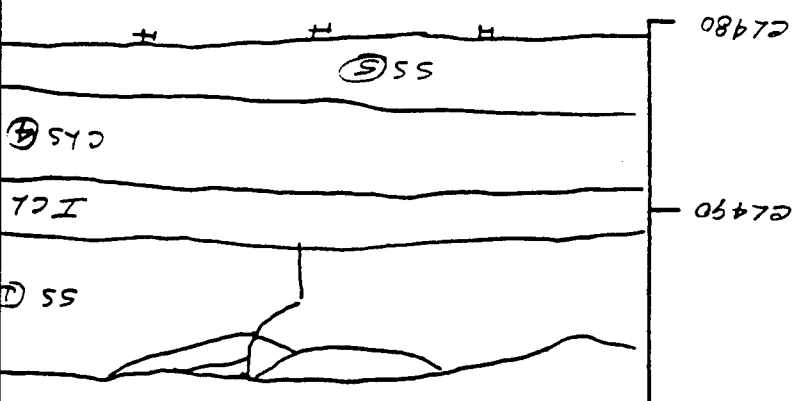
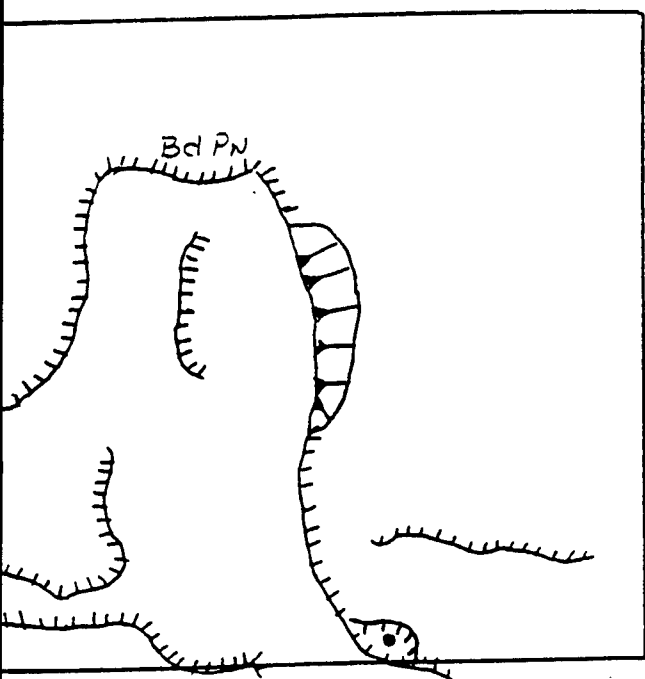
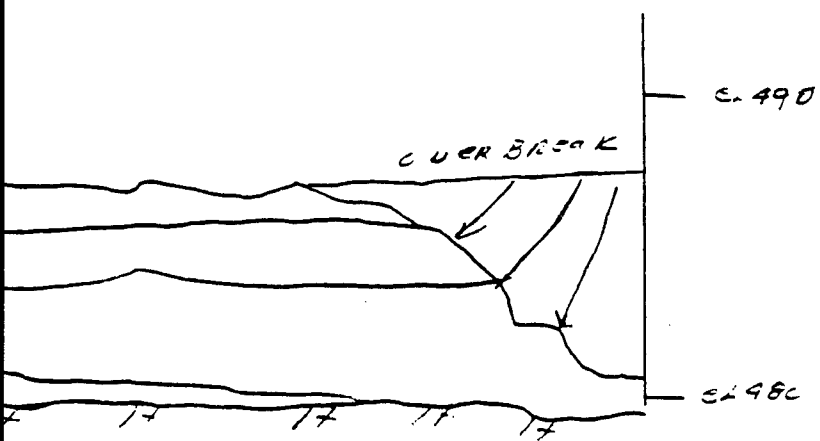
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Outlet Conduit



15 MAIN LOCK BULKHEAD SILL

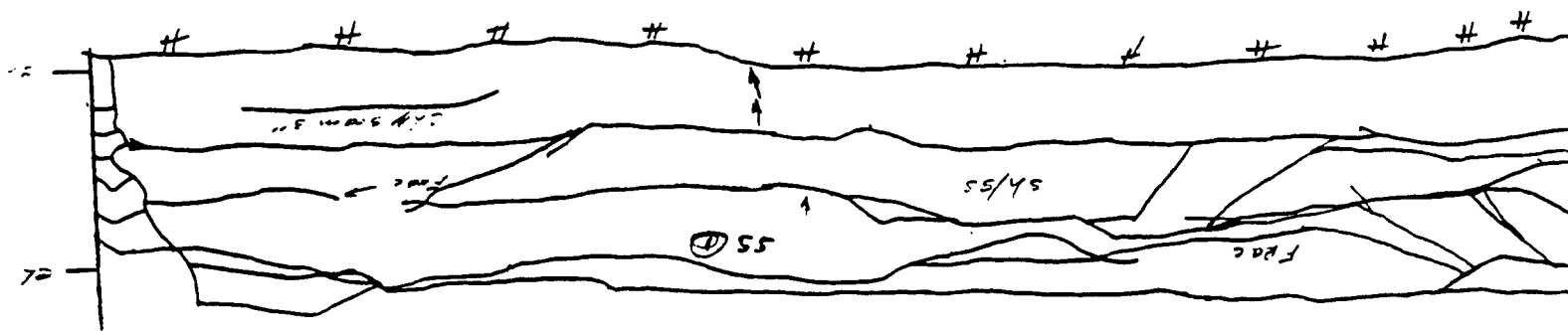
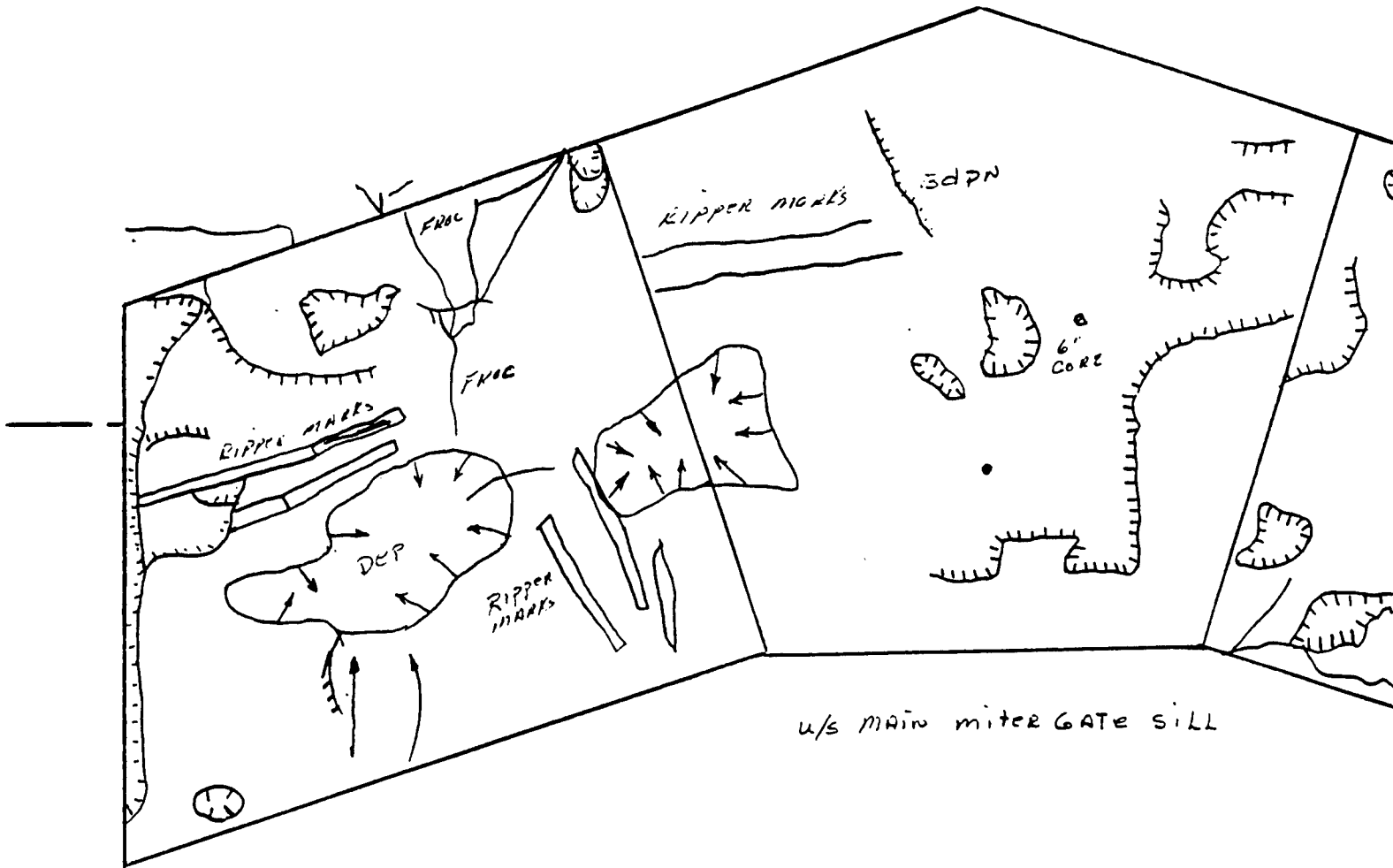
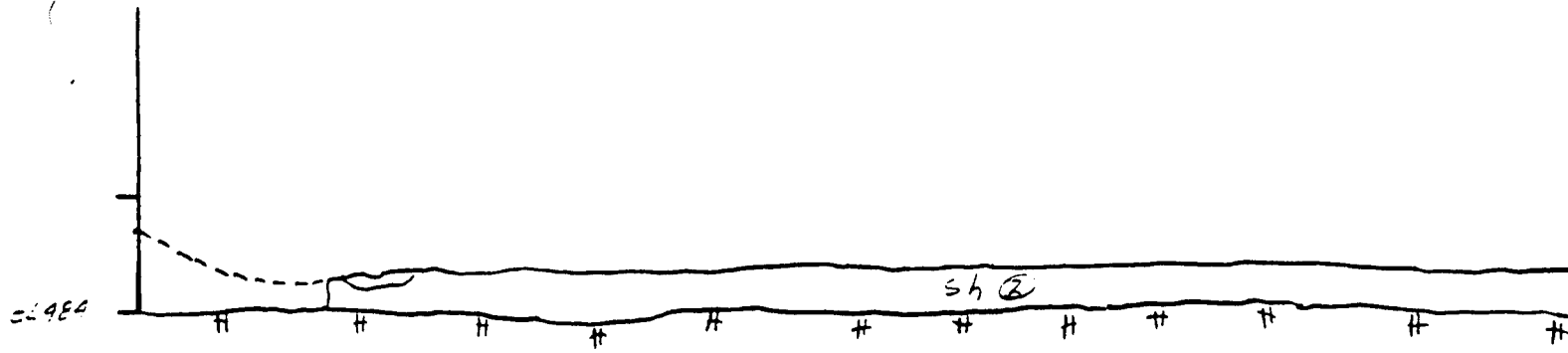


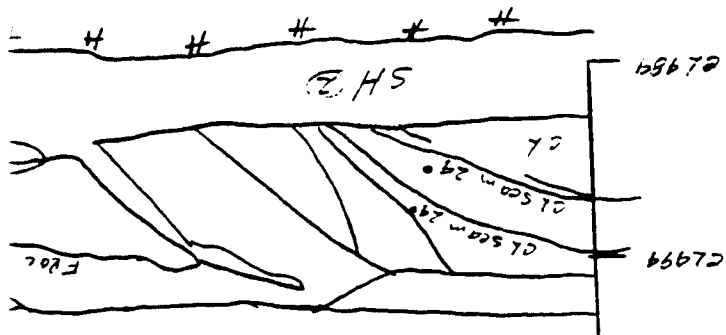
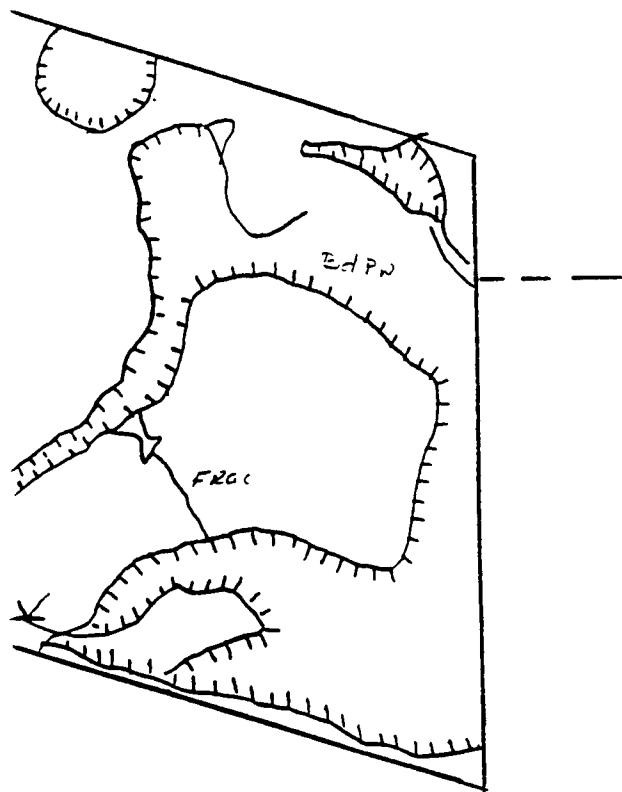
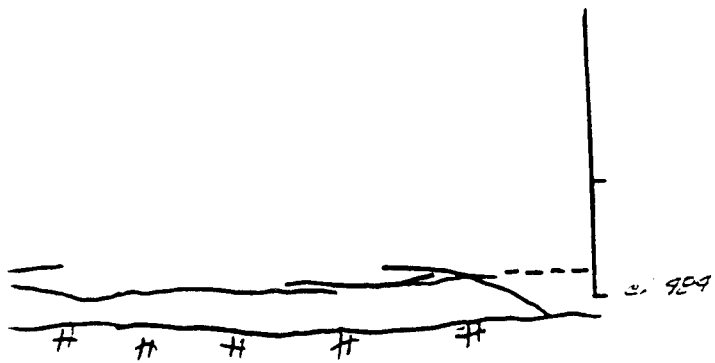


②

U.S. Army Corps of Engineer

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Main Lock Sill





②

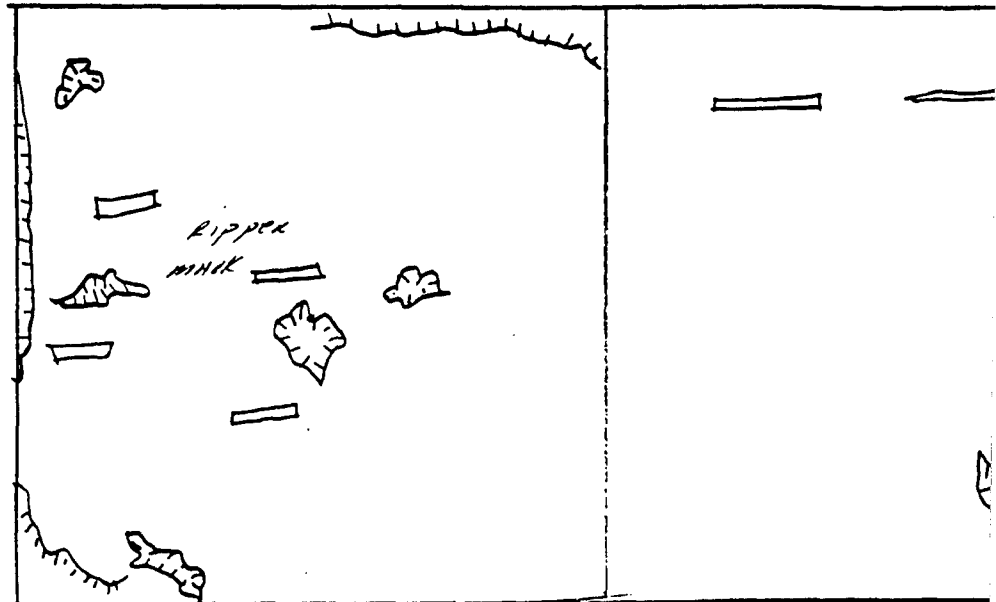
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U.S. ARMY CORPS OF ENGINEERS

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Main Lock Sill

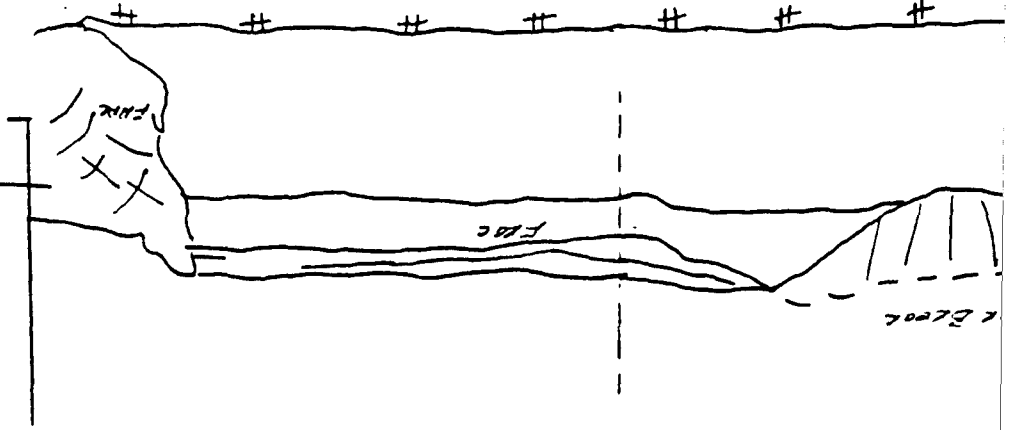
CL 480

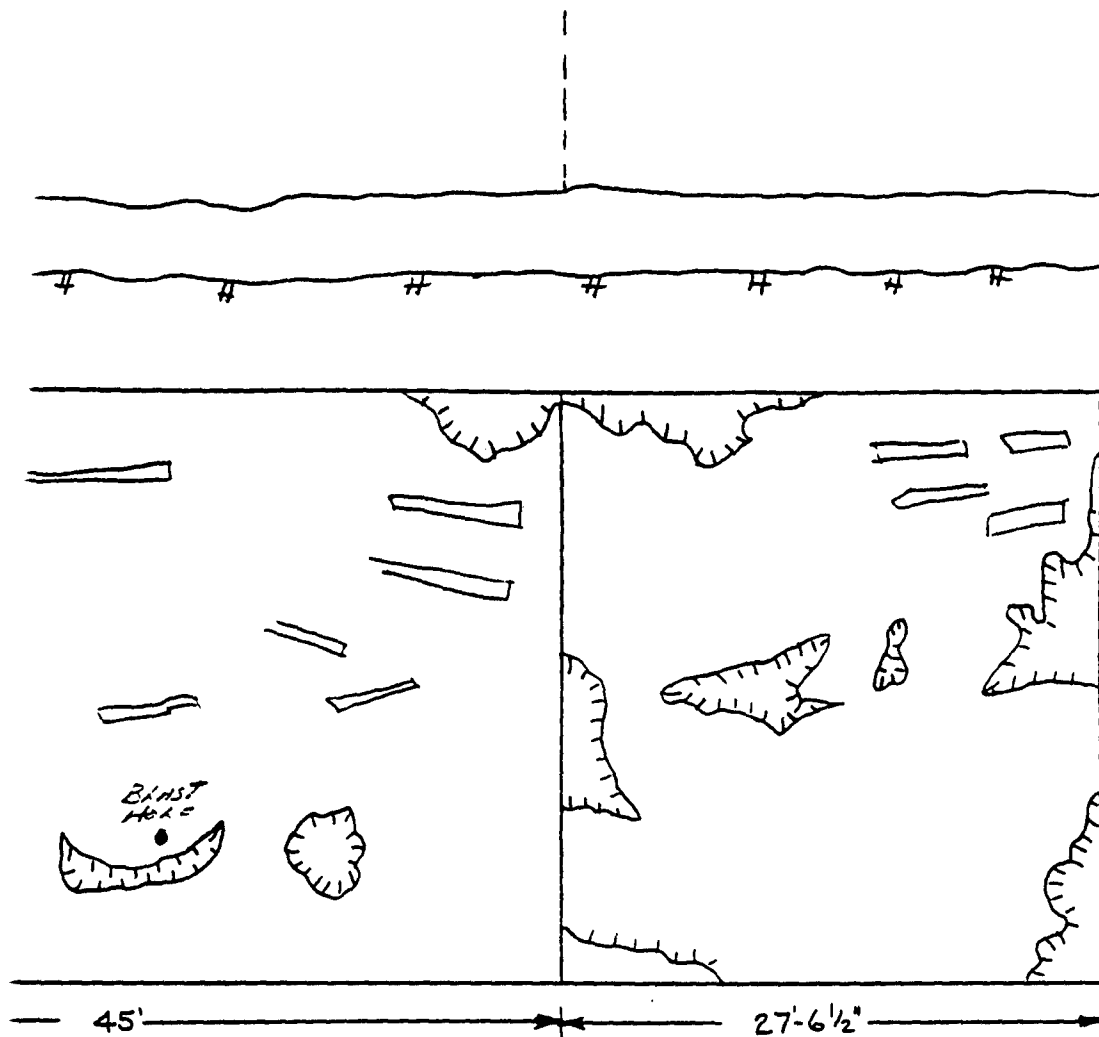
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D/S MAIN BULK

CL 484

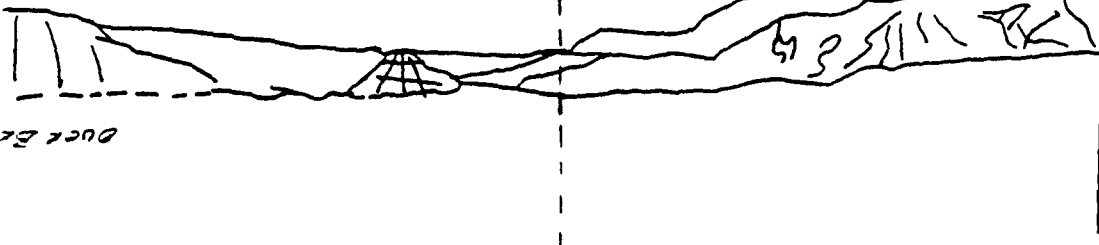




45' 27'-6 1/2"



45'



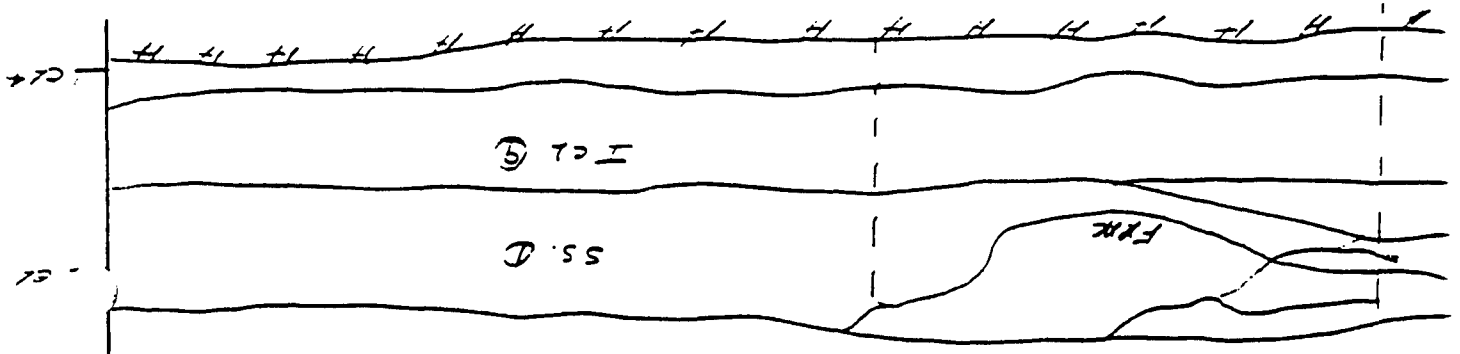
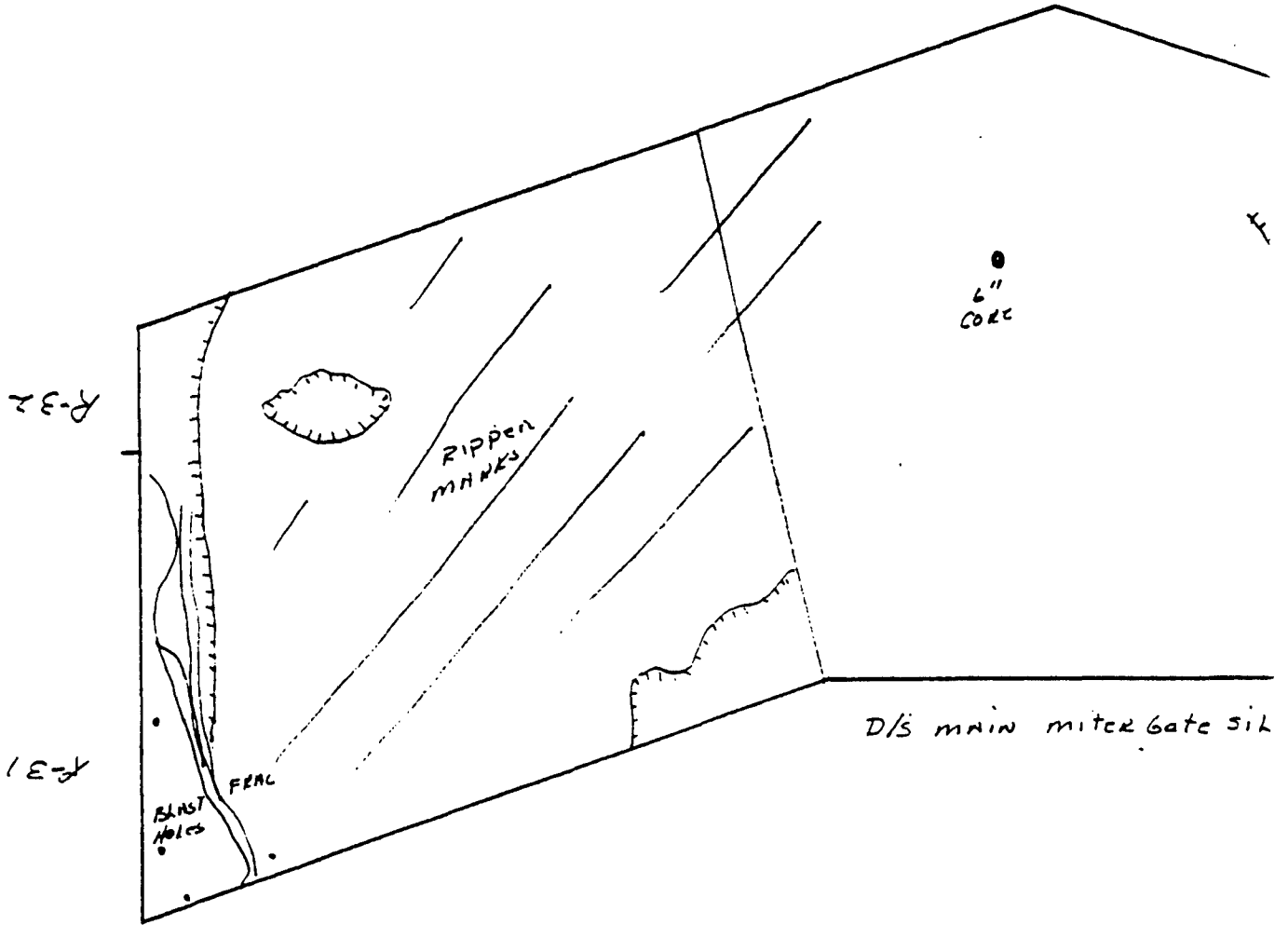
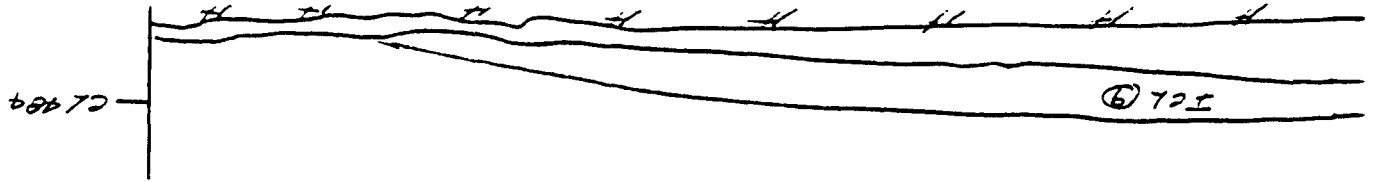
Duck Dam

2

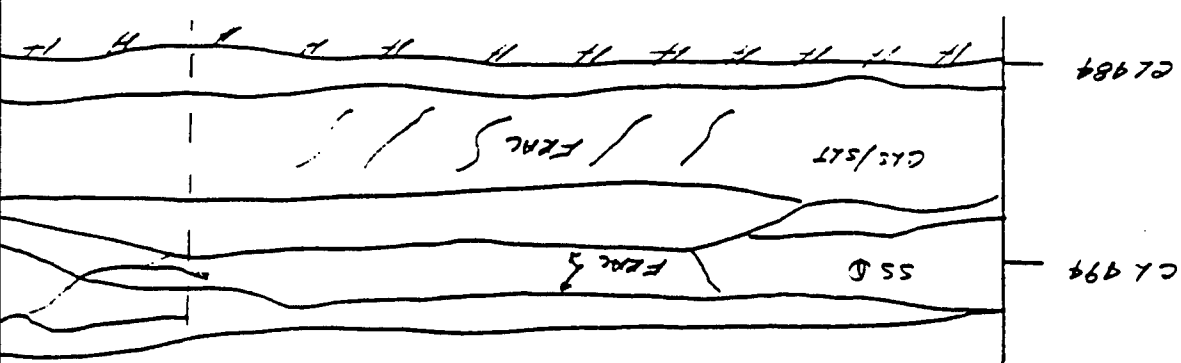
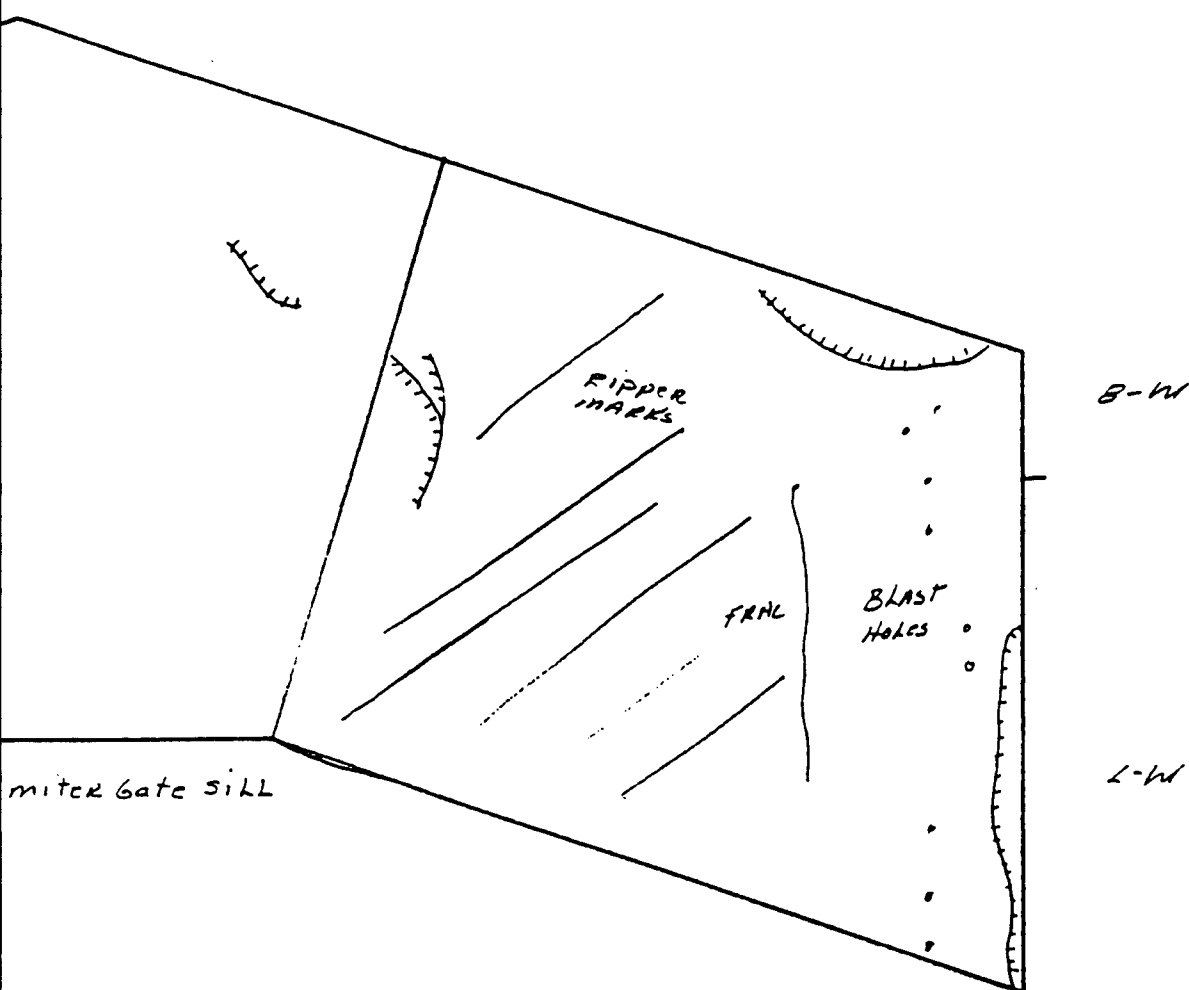
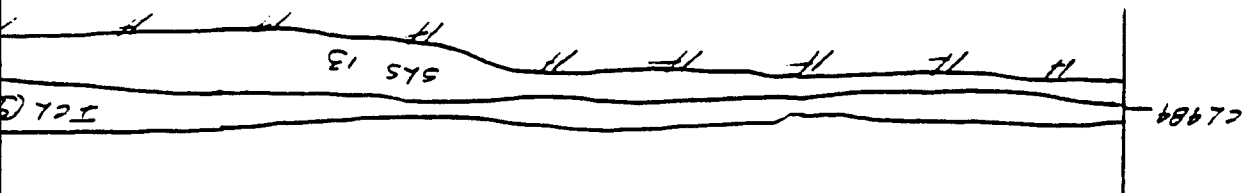
312

U.S. Army Corps of Engineers

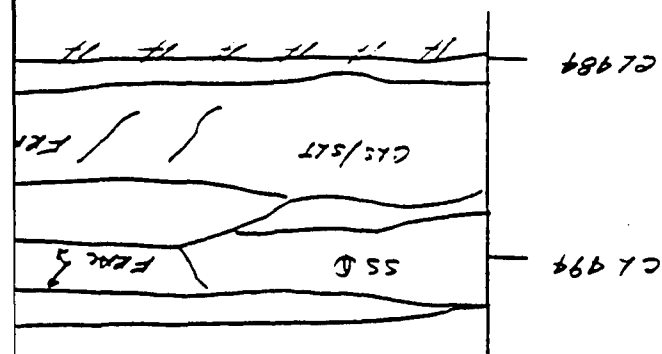
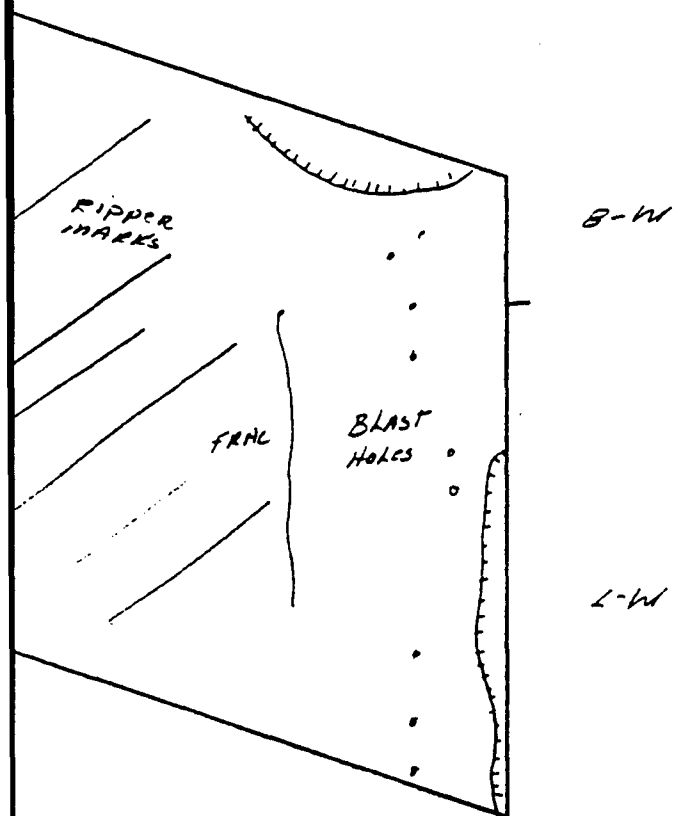
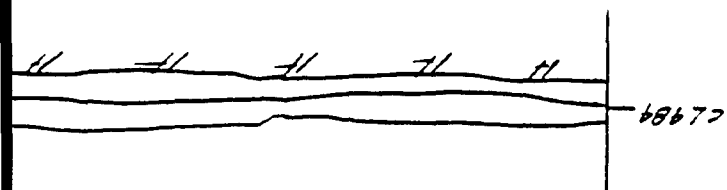
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Main Lock Sill







②

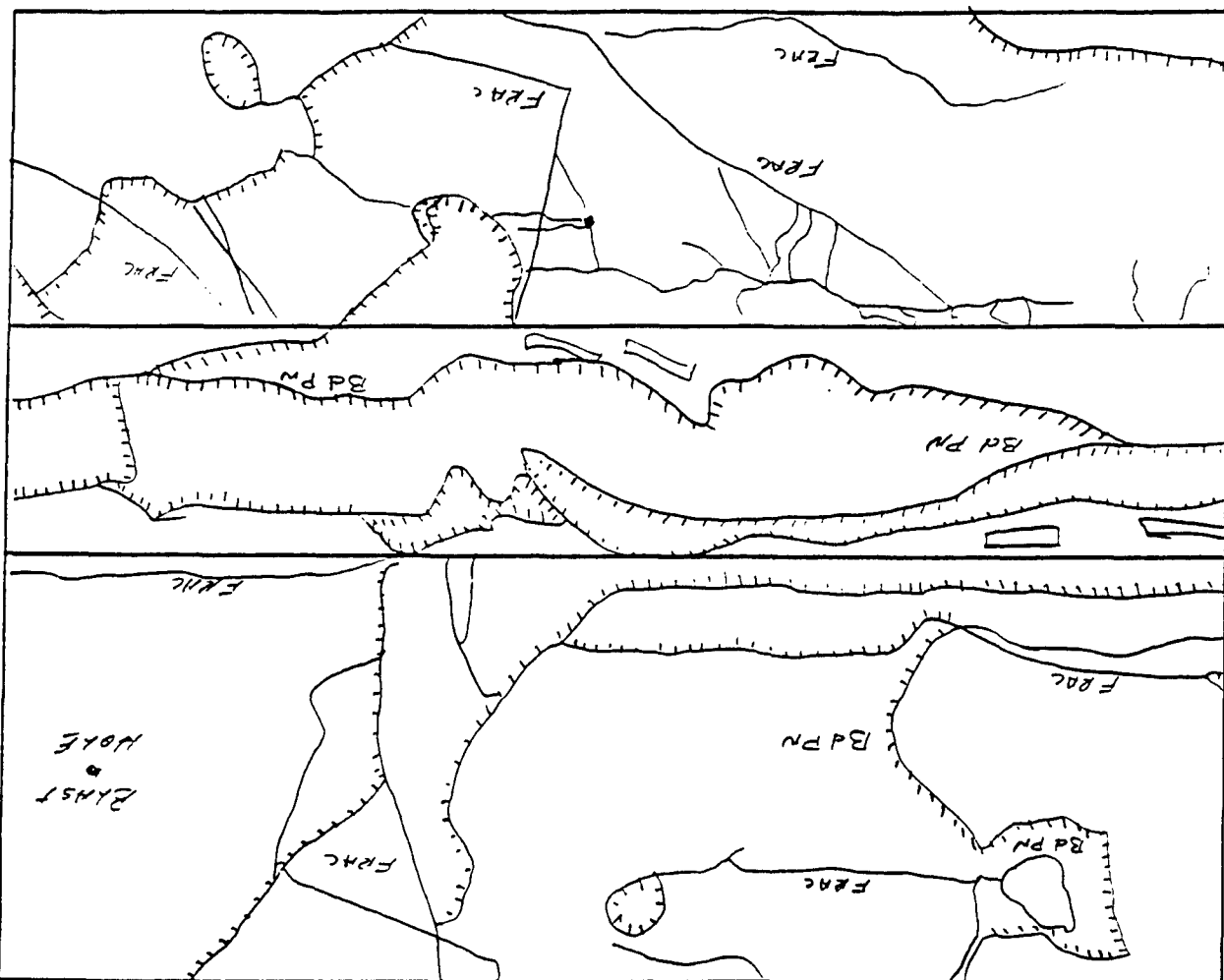


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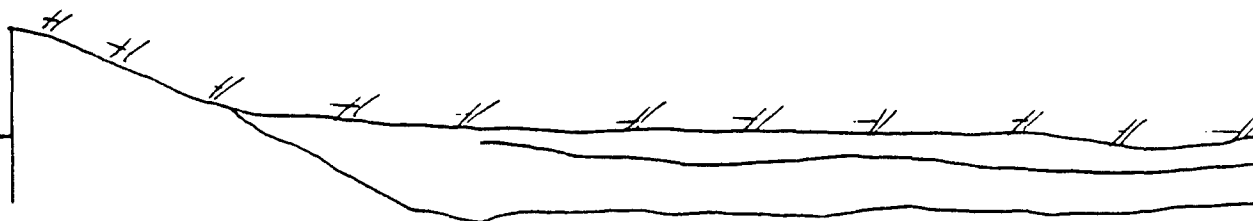
313

U. S. Army Corps of Engineers

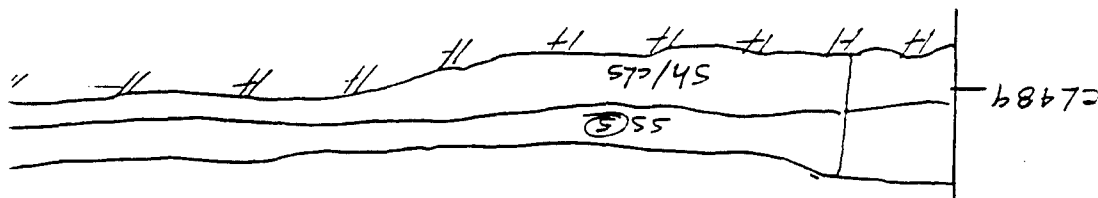
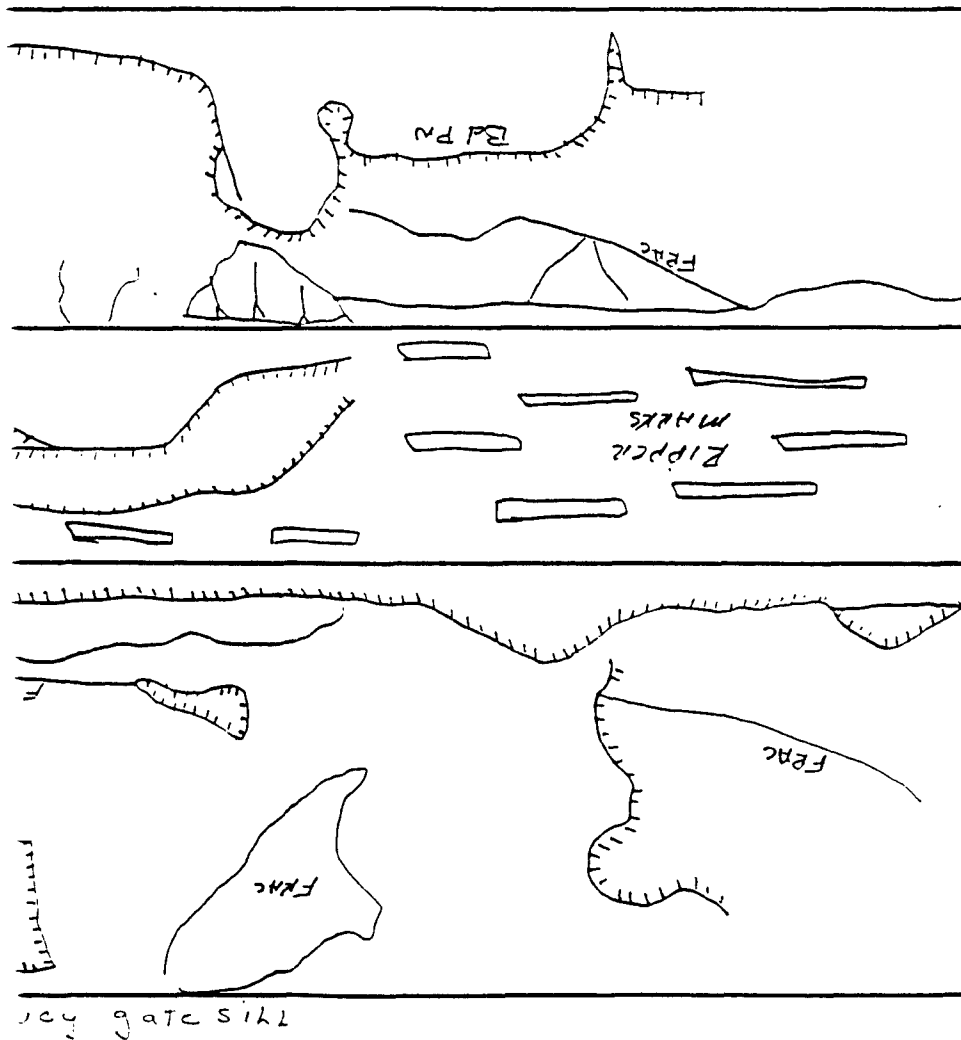
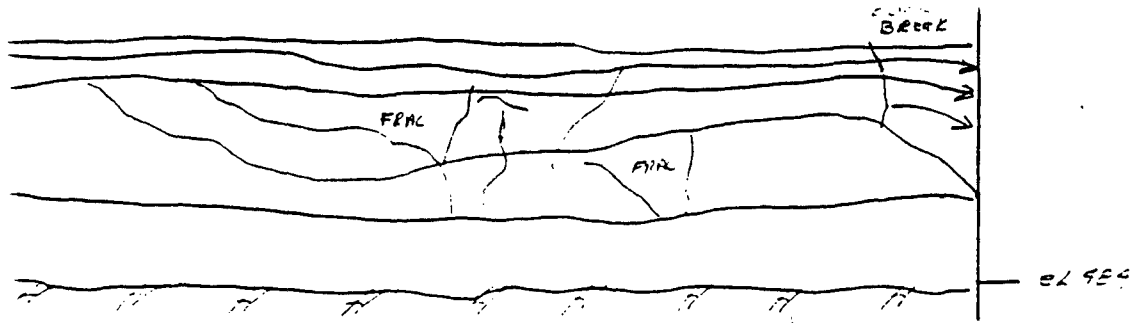
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Main Lock Sill



MAIN LOCK Emergency



①

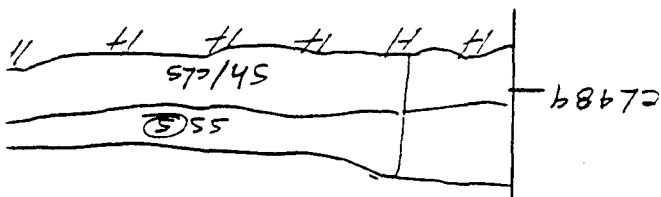
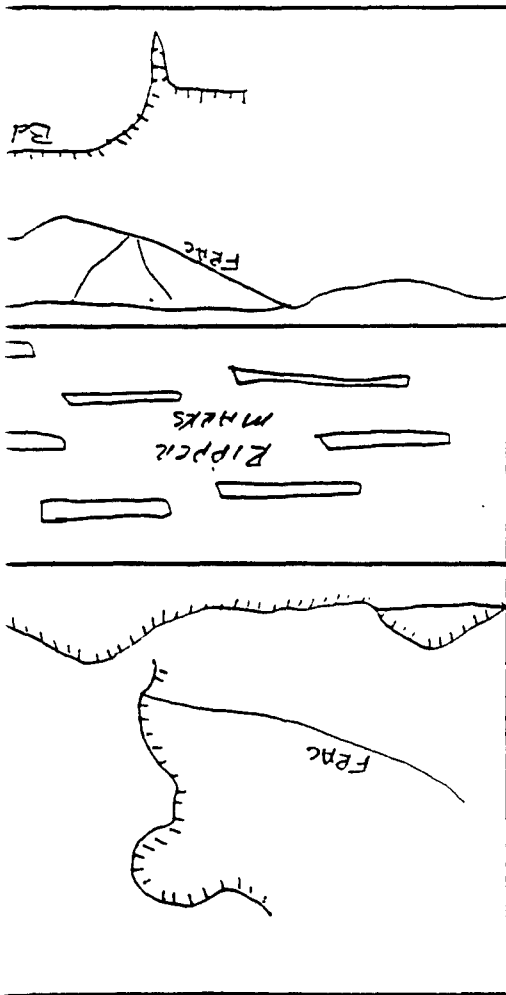
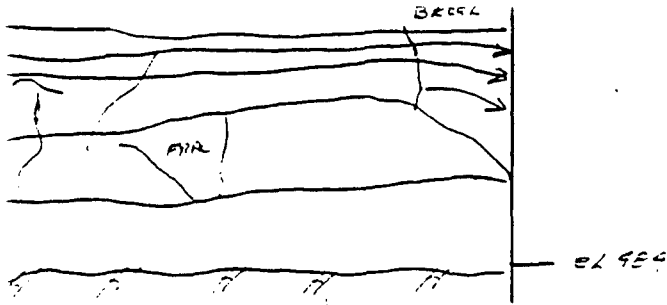


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314

U.S. Army Corp

Gallipolis L  
Lock in  
Foundation  
Main Lock

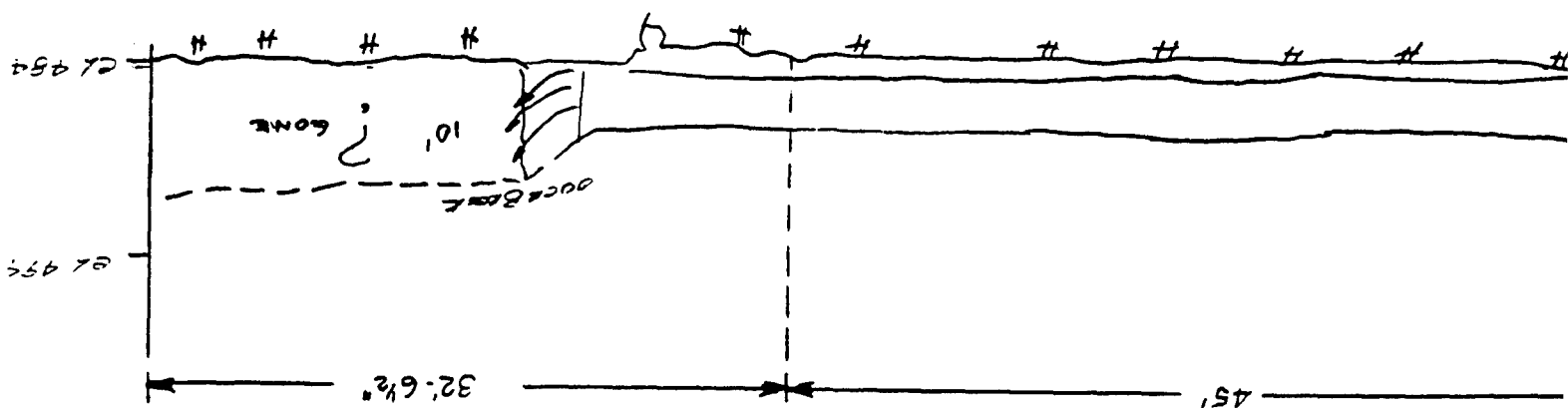
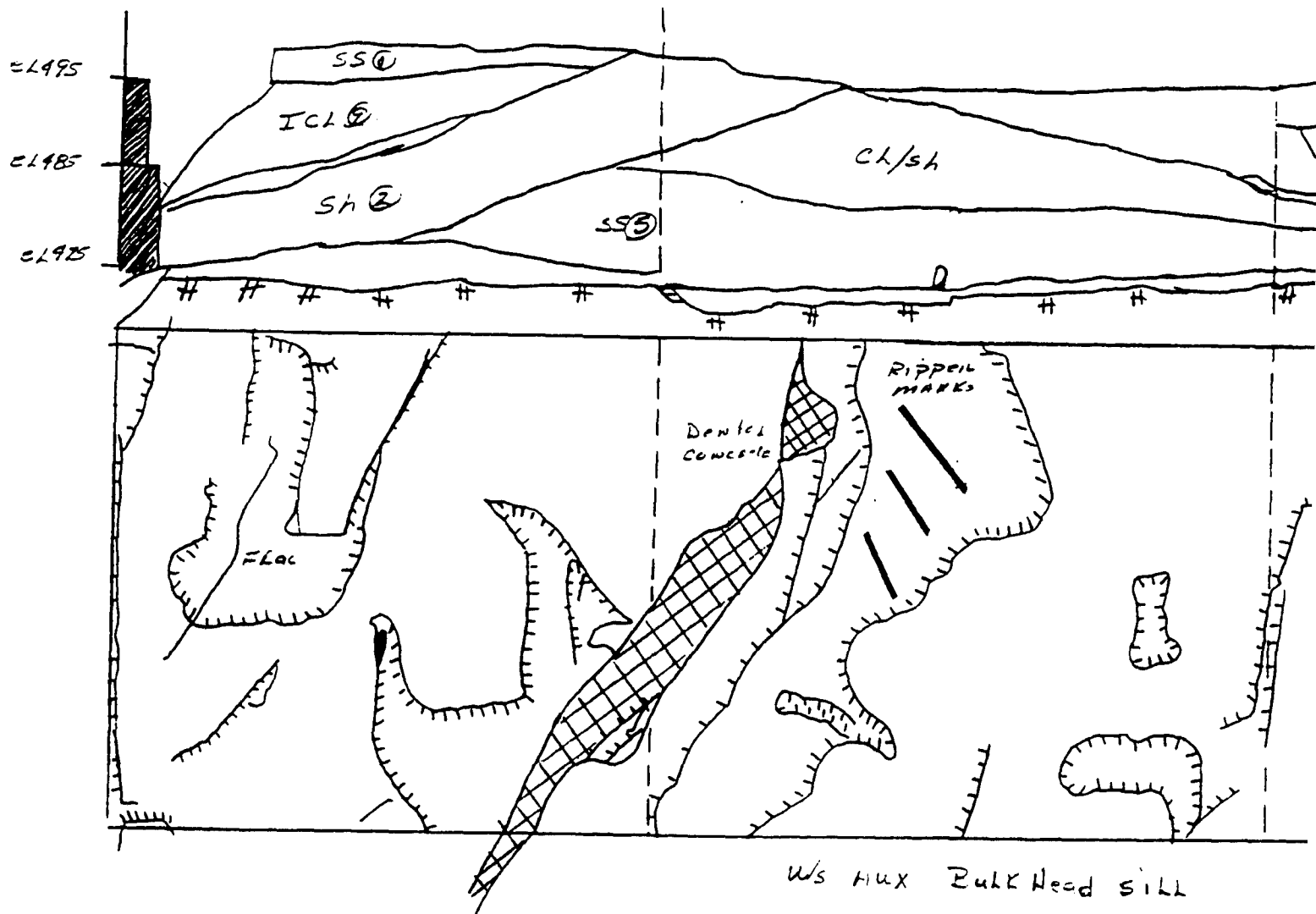


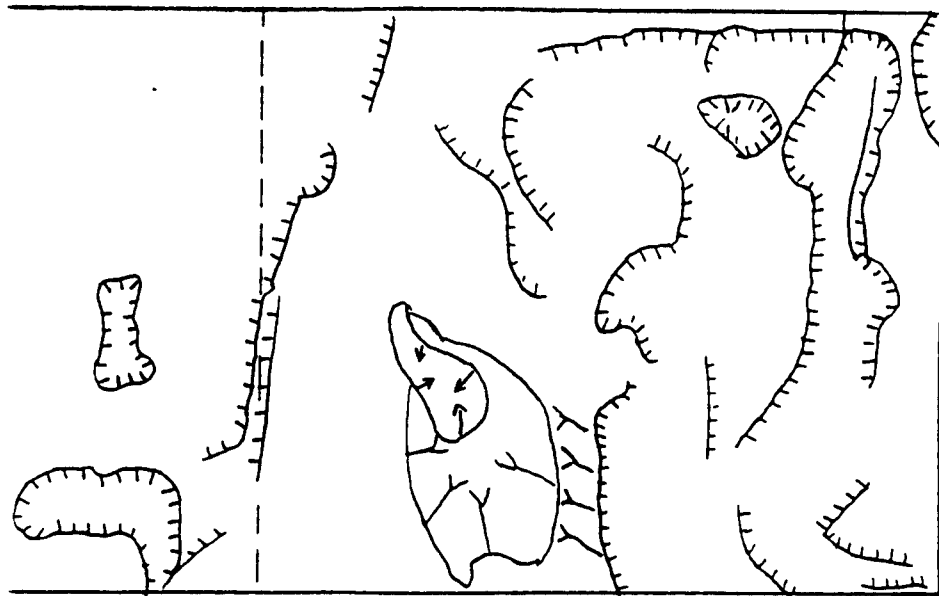
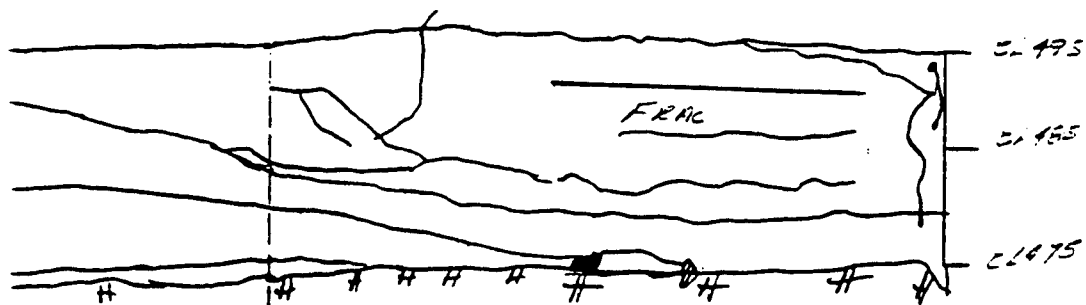
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314

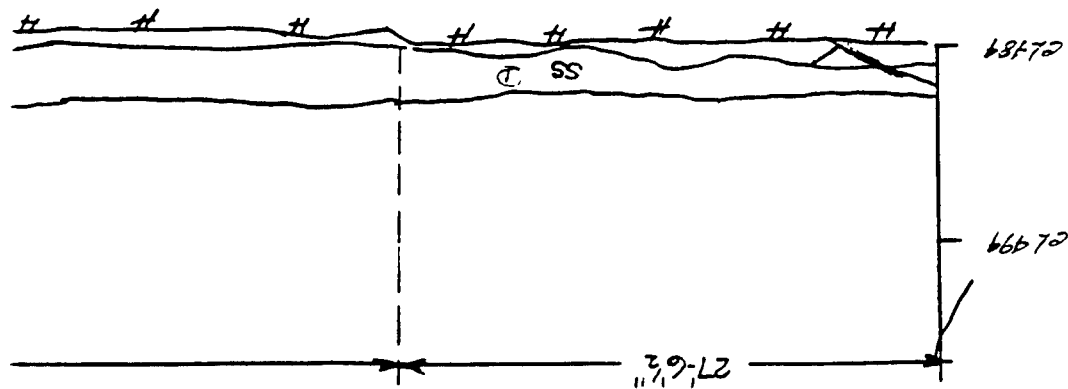
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation drawing  
Main Lock Sill





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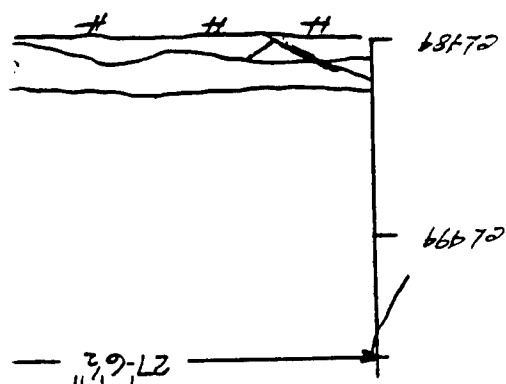
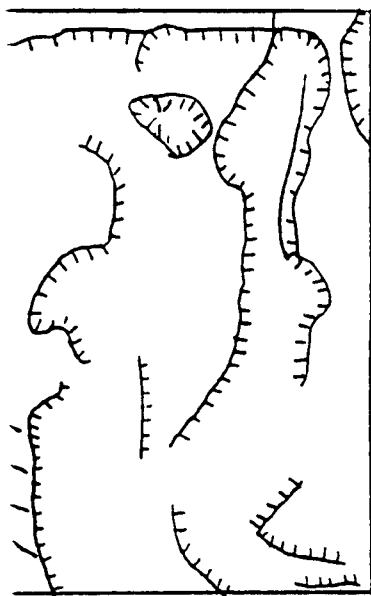
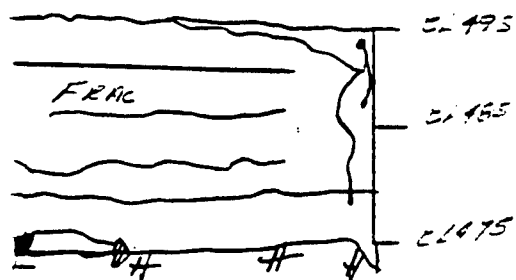


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315

U.S. Army

Gallipoli  
Lock  
Foundati  
Auxiliary



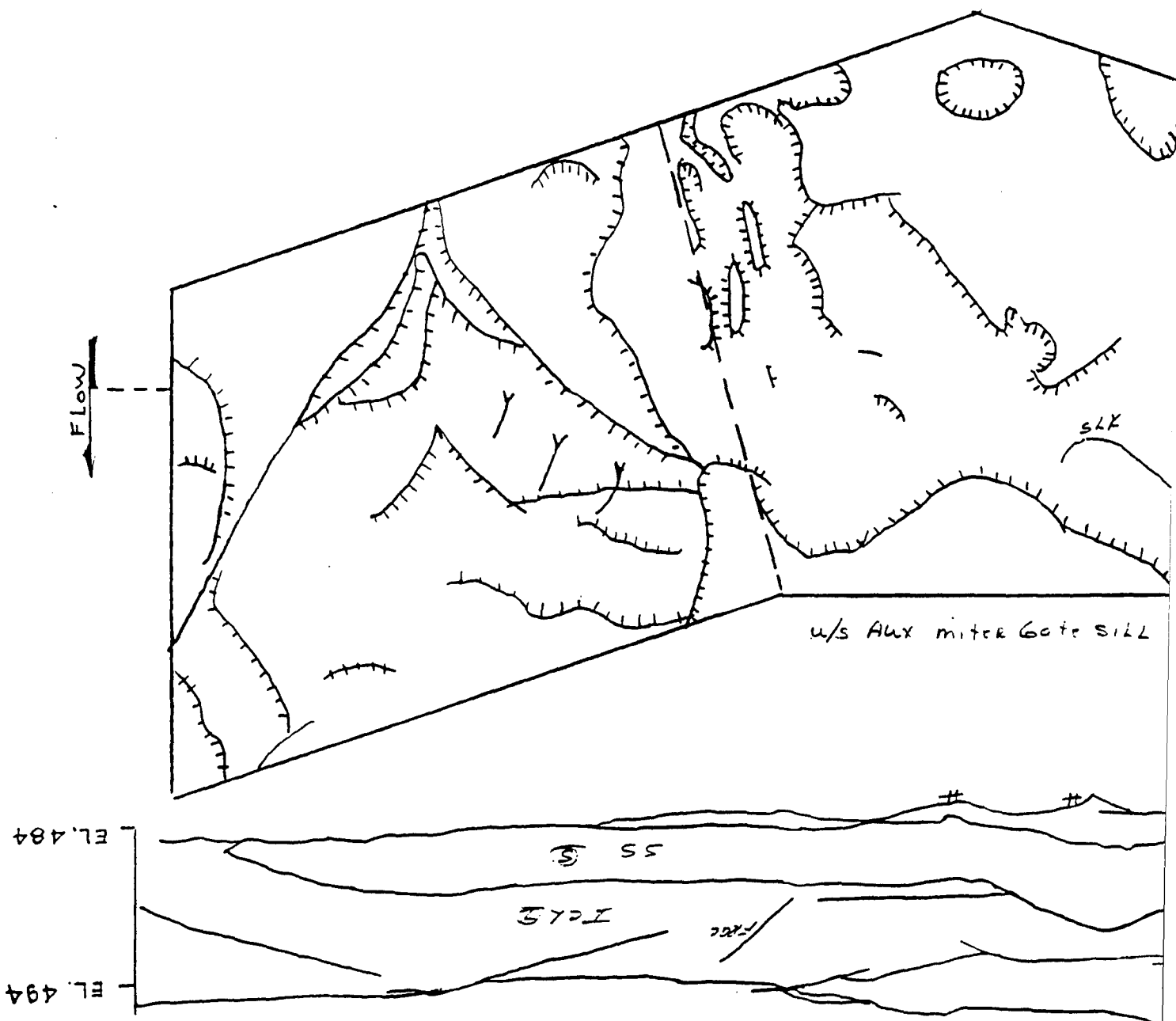
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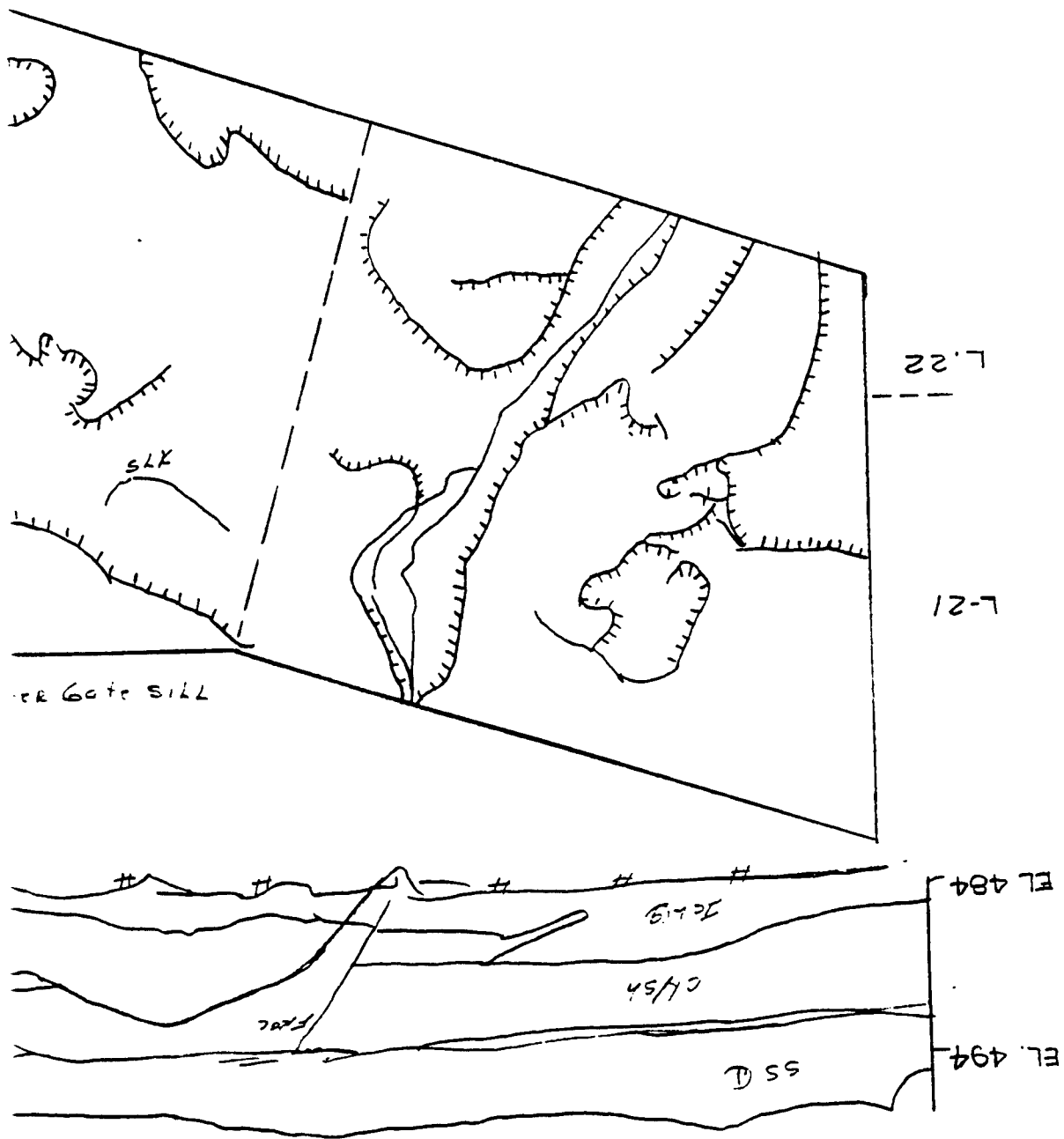
315

U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Auxiliary Lock Sill





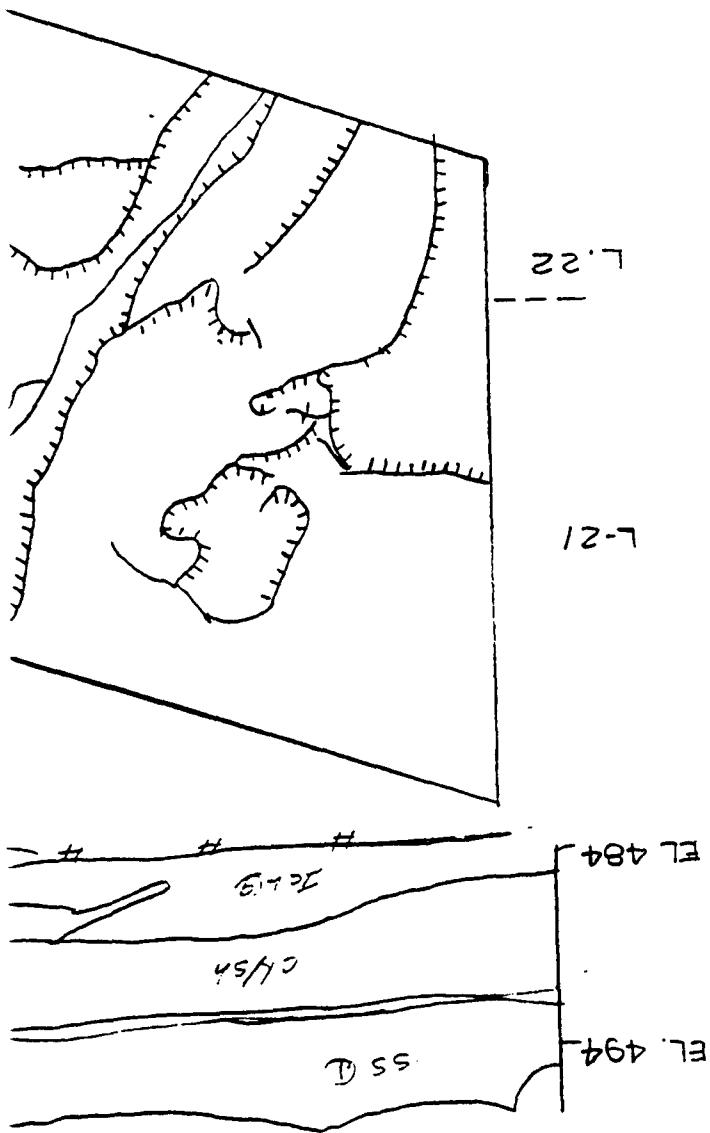


(2)

316

U.S. Army

Gallipoli  
Loc  
Foundat  
Auxiliar

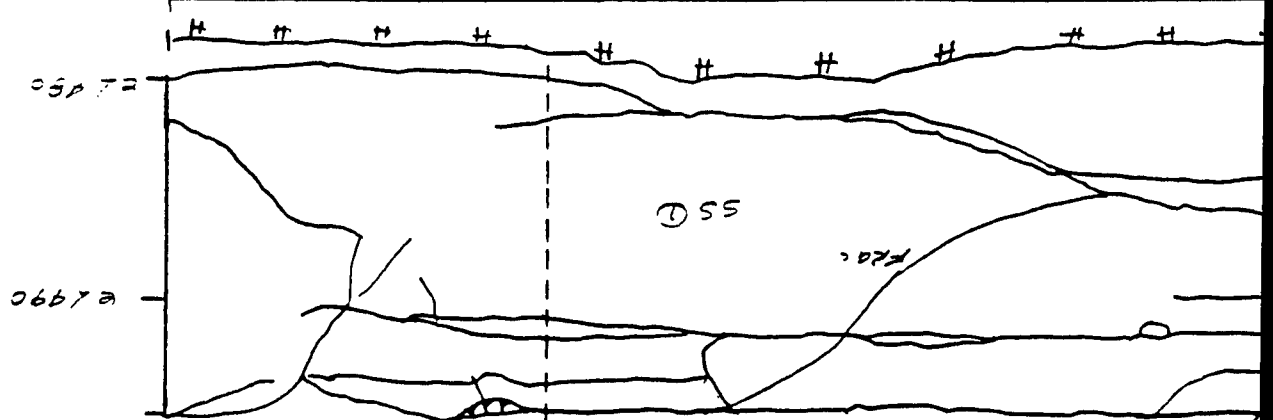
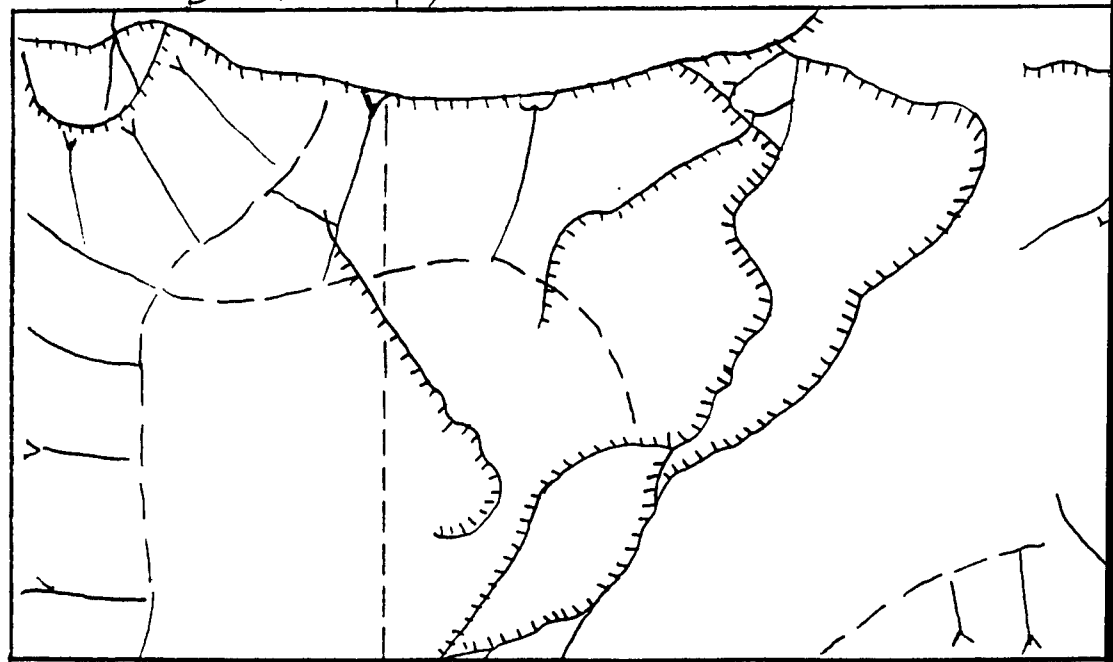
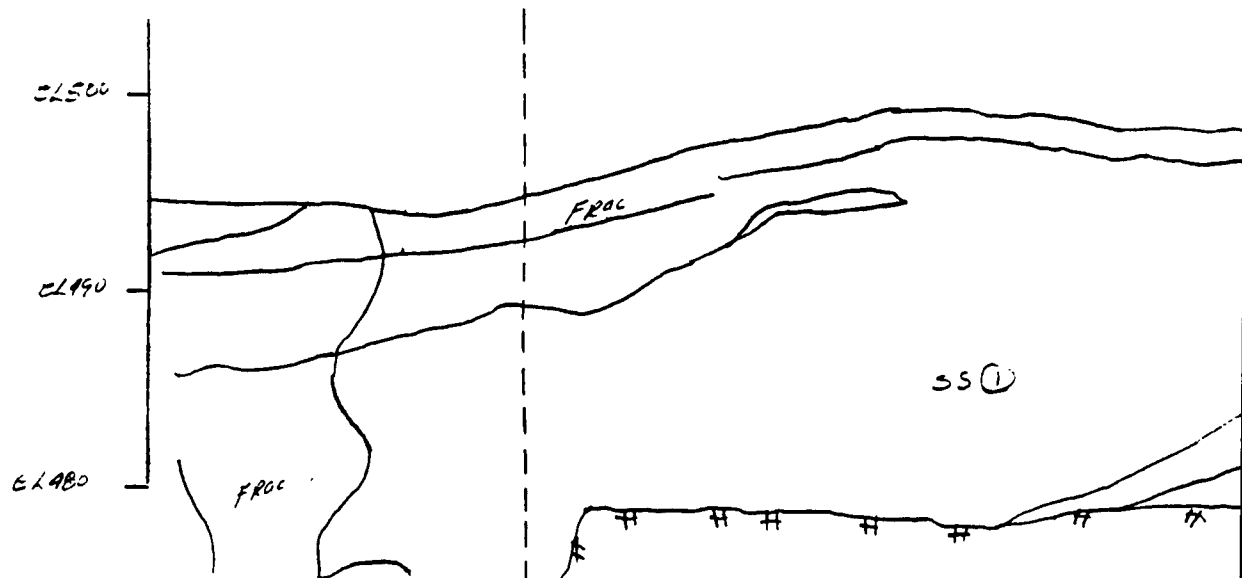


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316

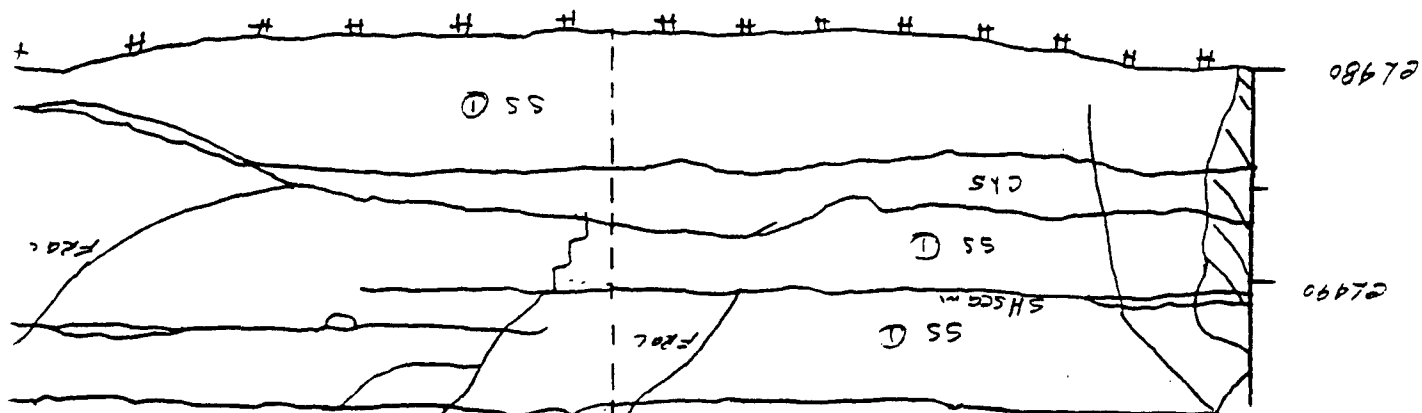
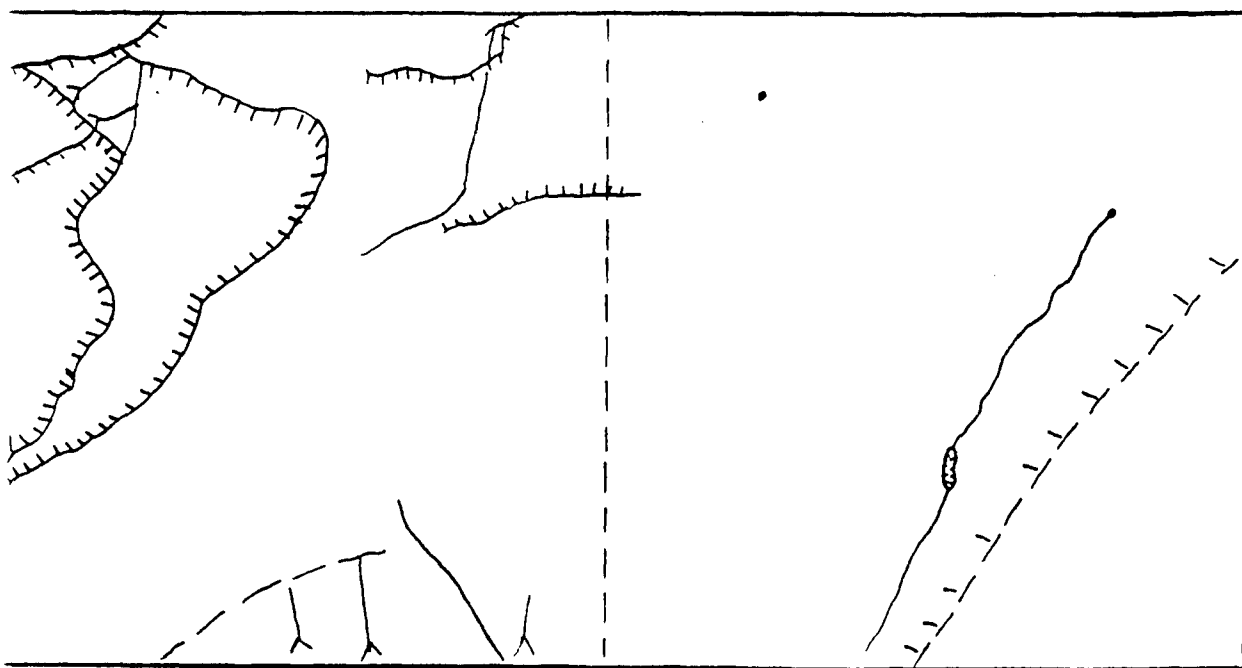
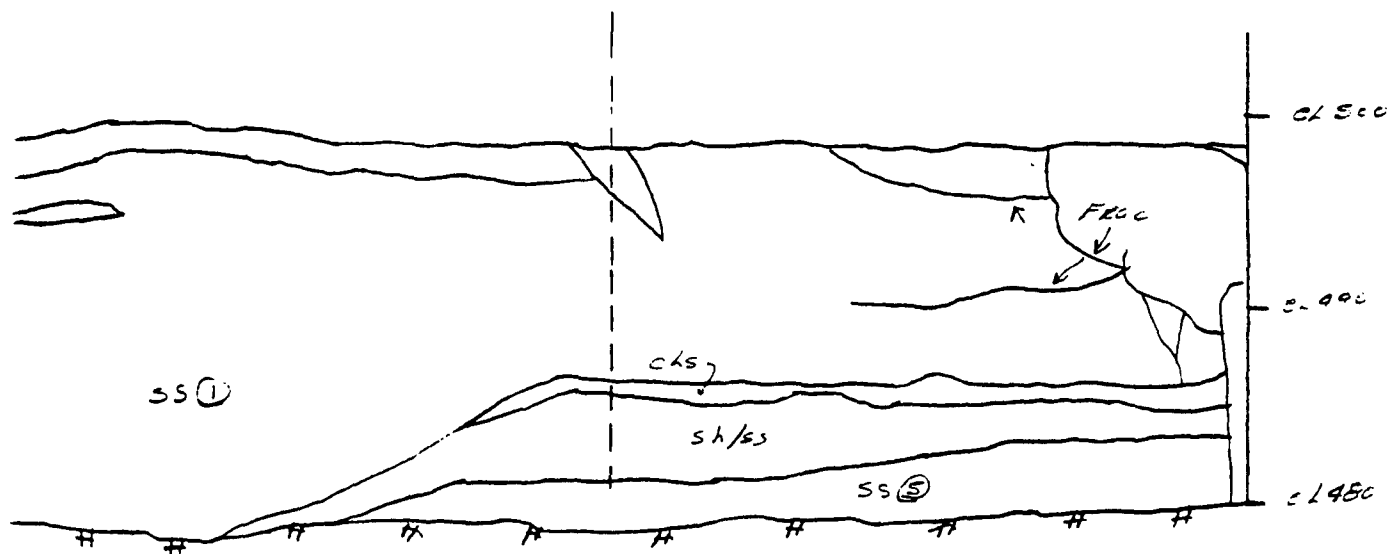
U. S. ARMY CORPS OF ENGINEERS

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Auxiliary Lock Sill



D/S Aux Bulkhead

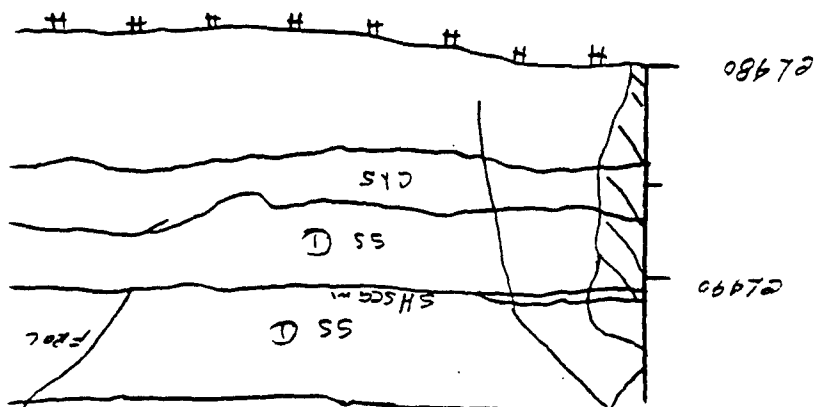
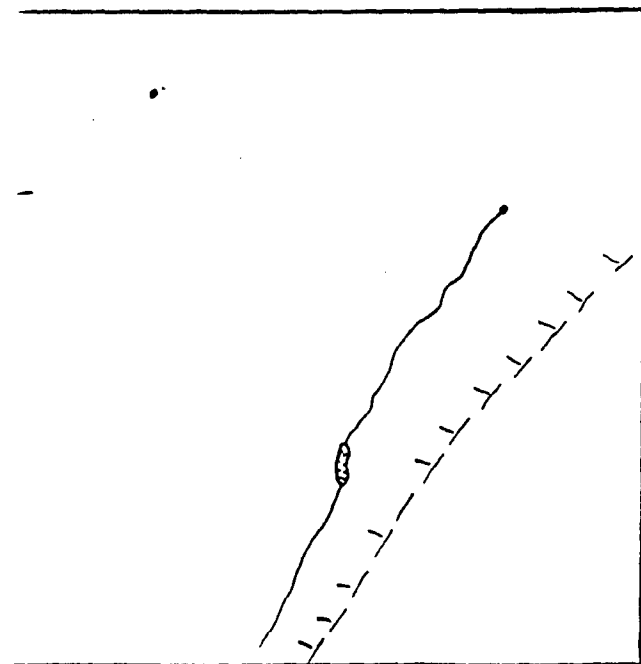
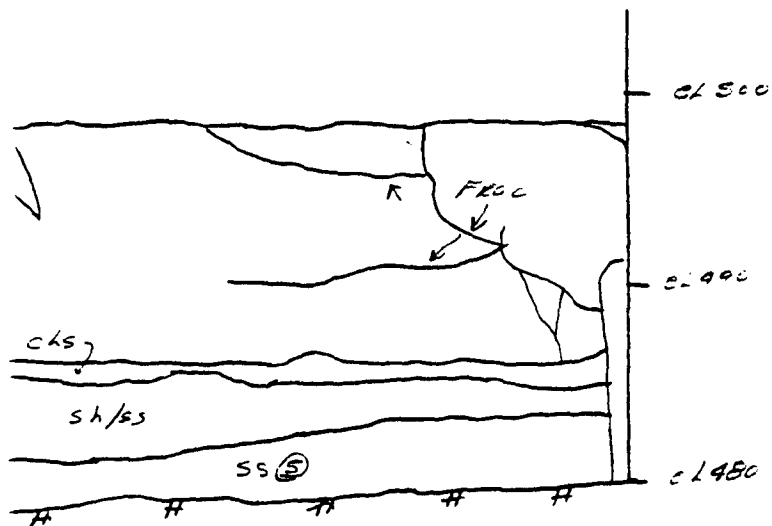
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D/S Aux Bulkhead sill

②

317

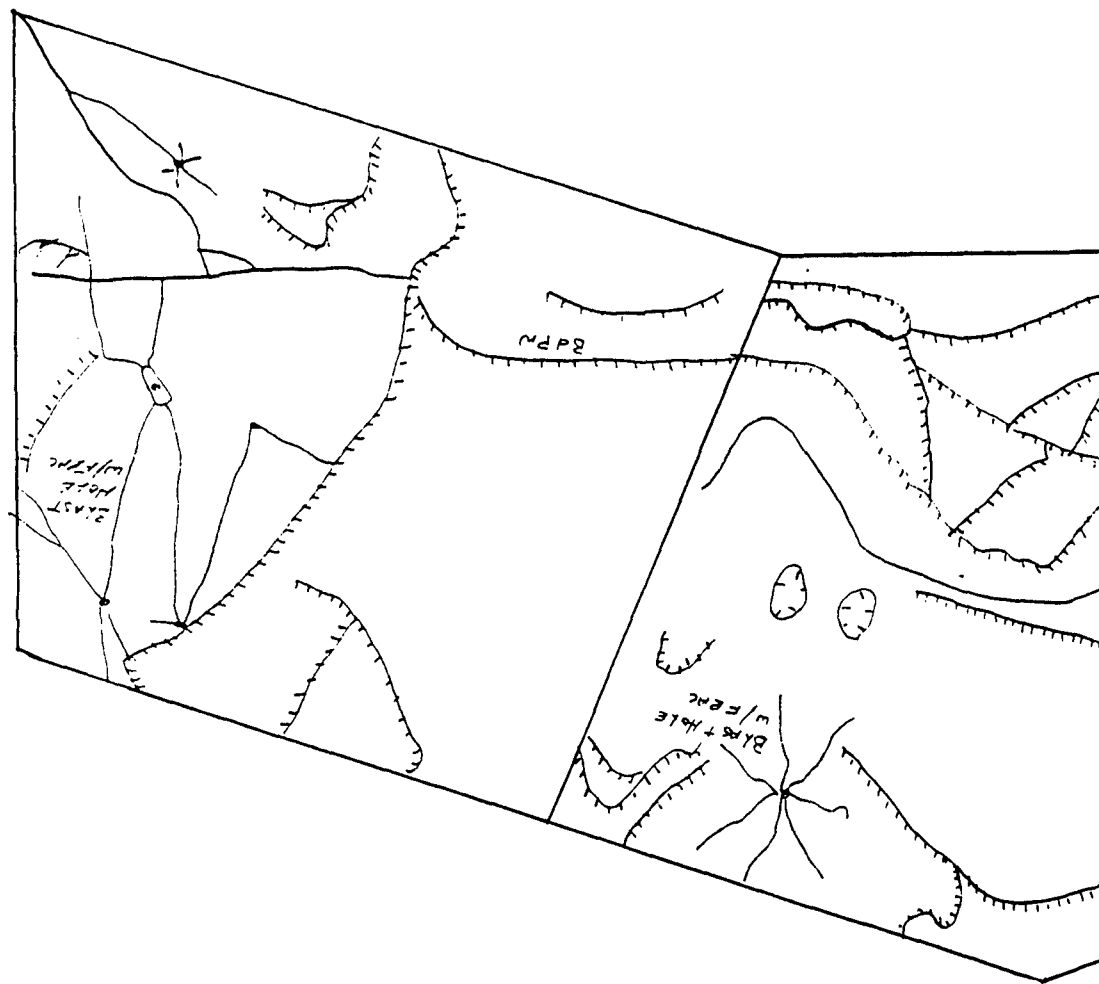
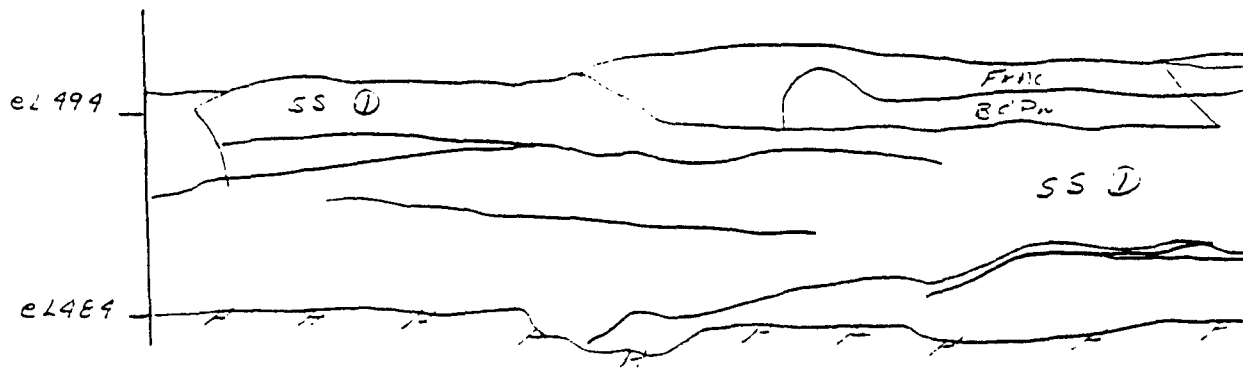


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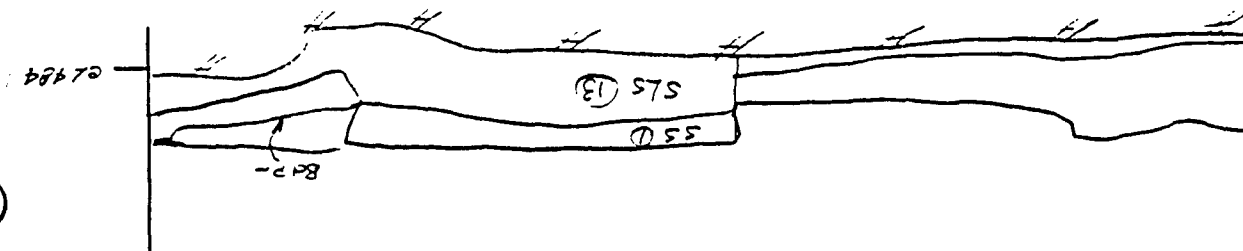
317

U.S. Army Corps of Engineers

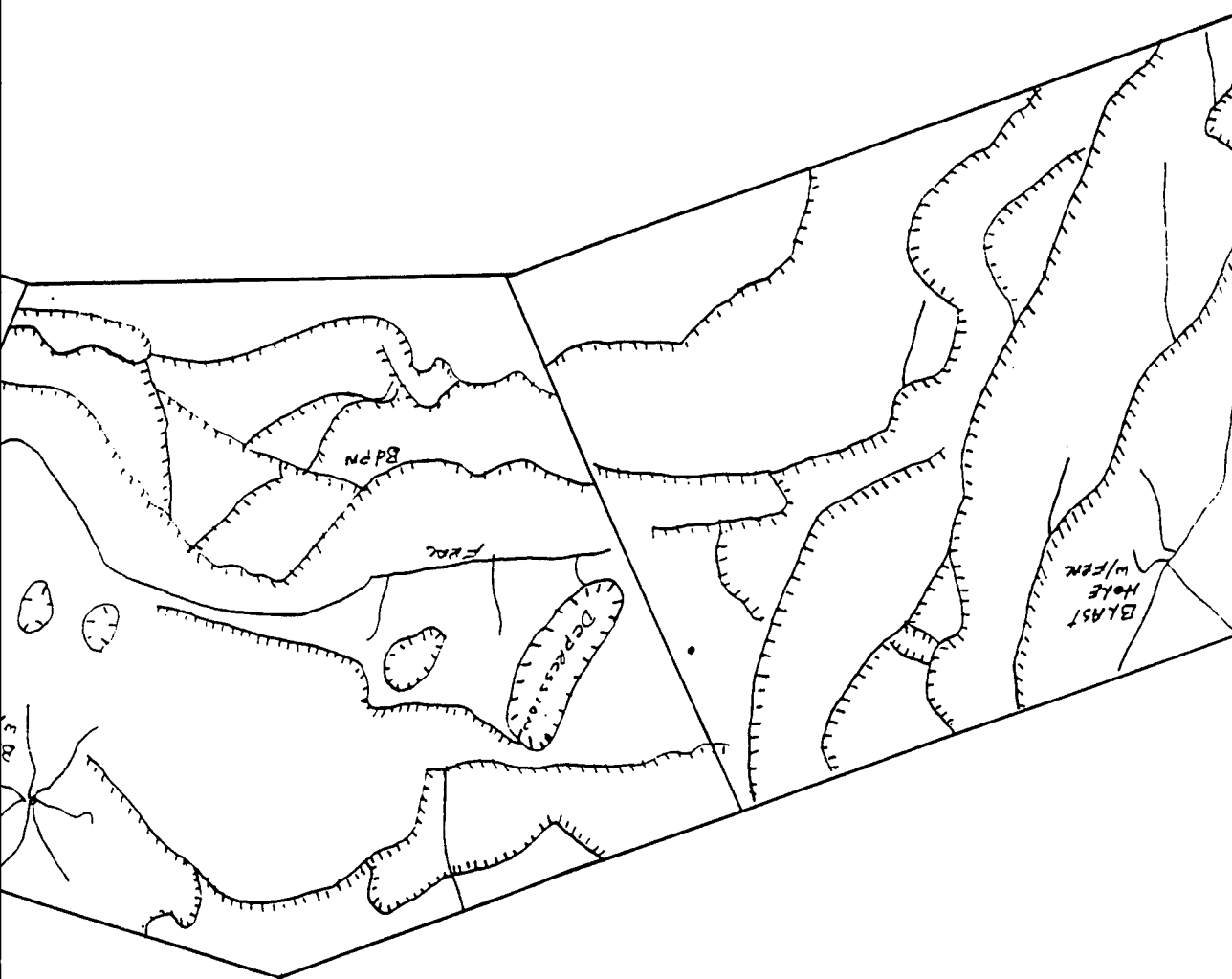
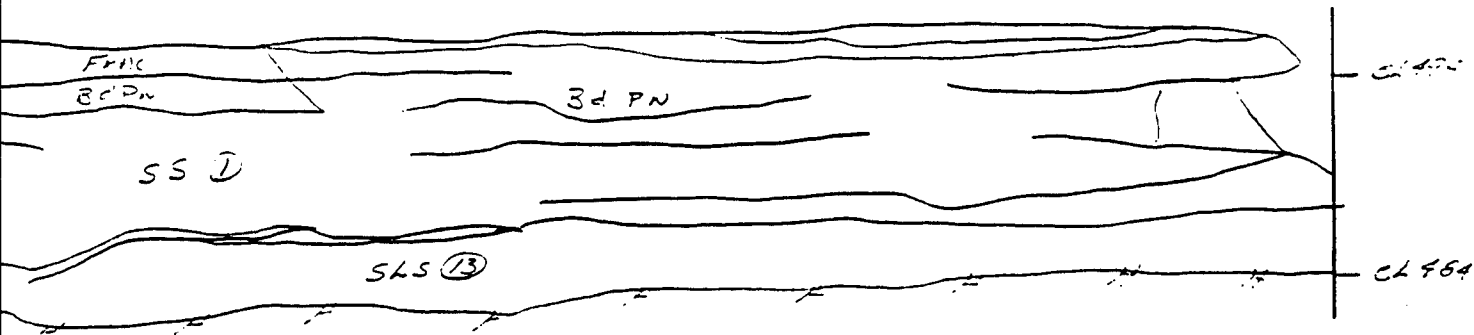
Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Auxiliary Lock Sill



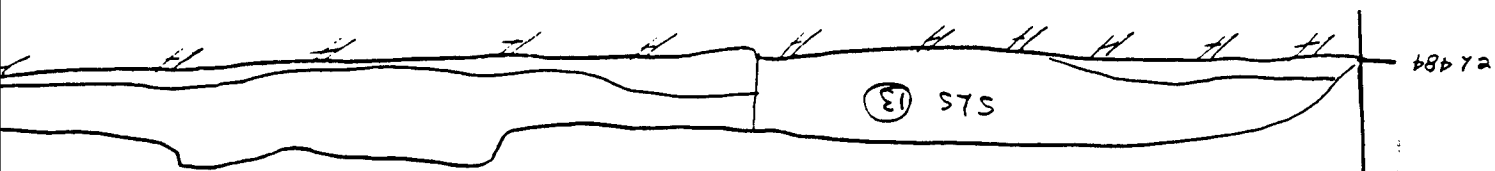
D/S AUX MITEE



①

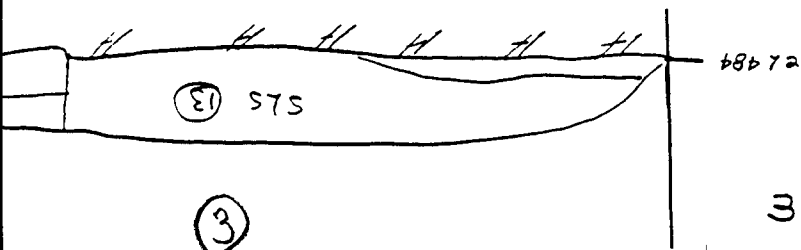
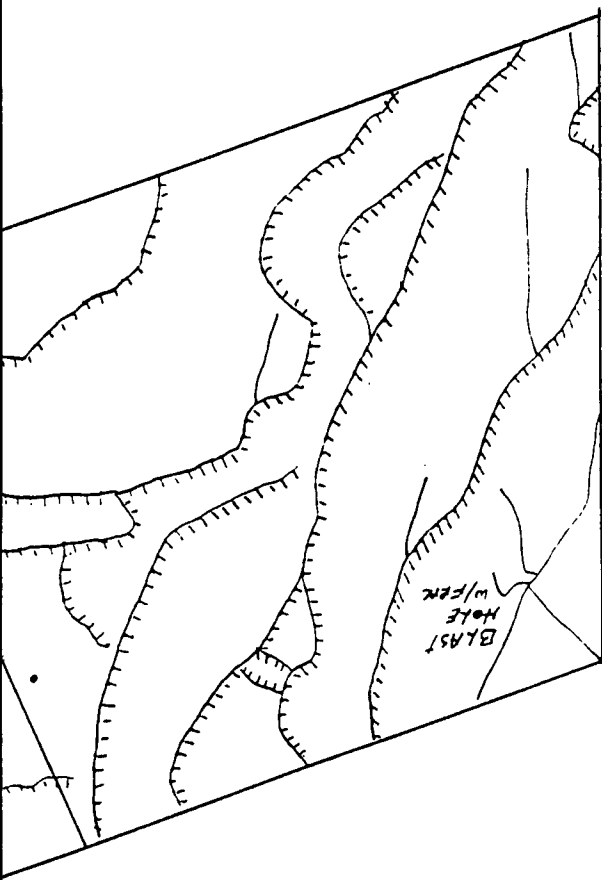
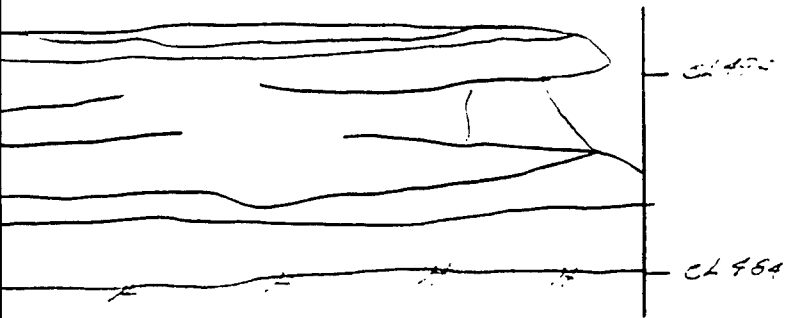


D/S AUX MITER GATE SILL



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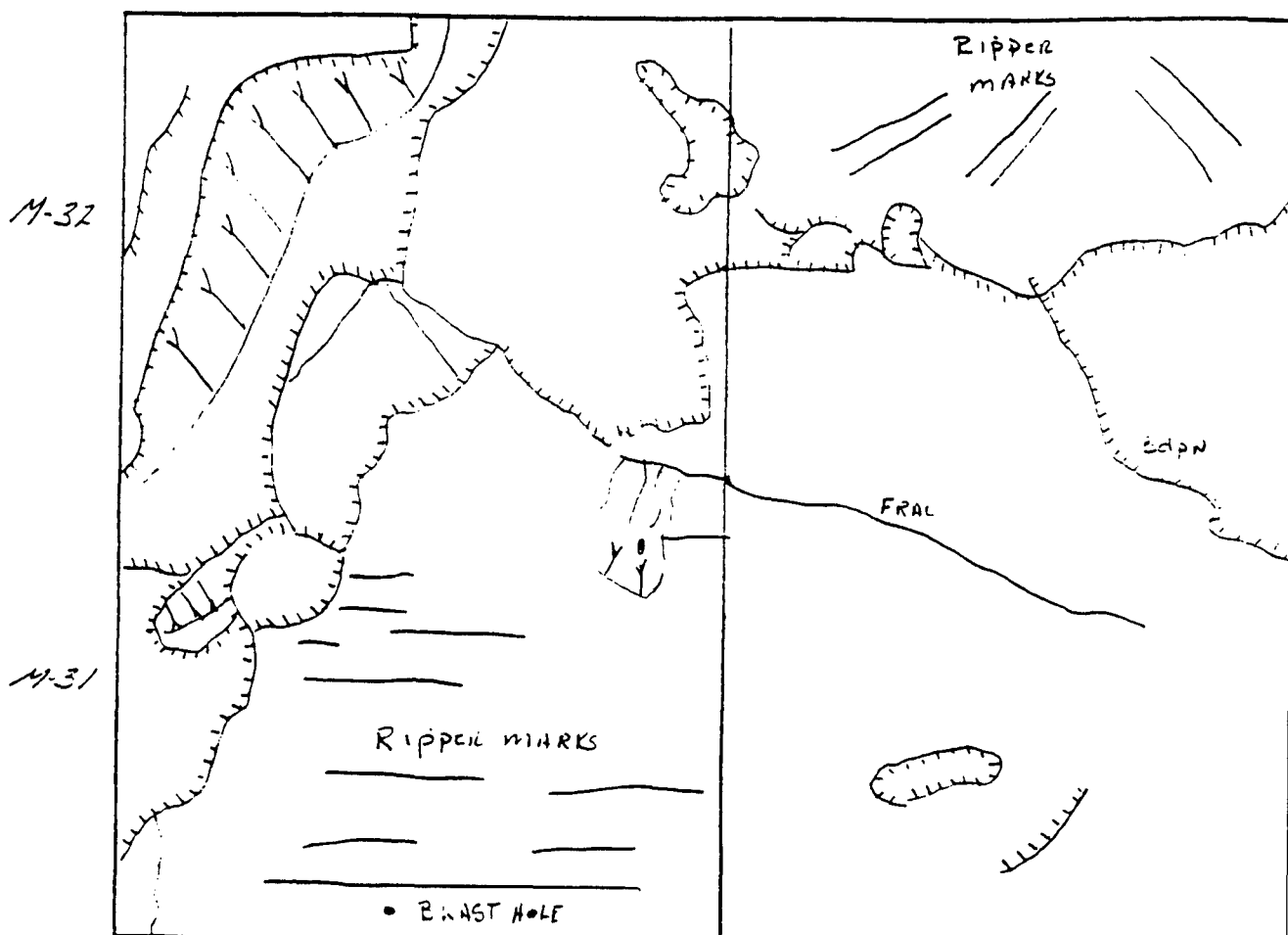
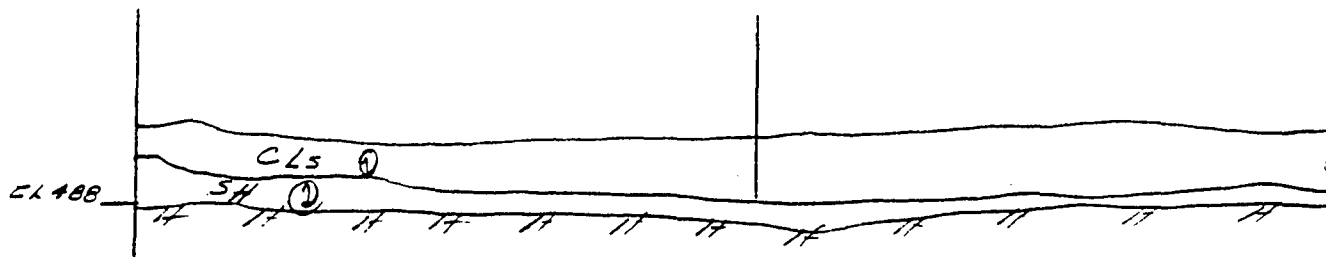




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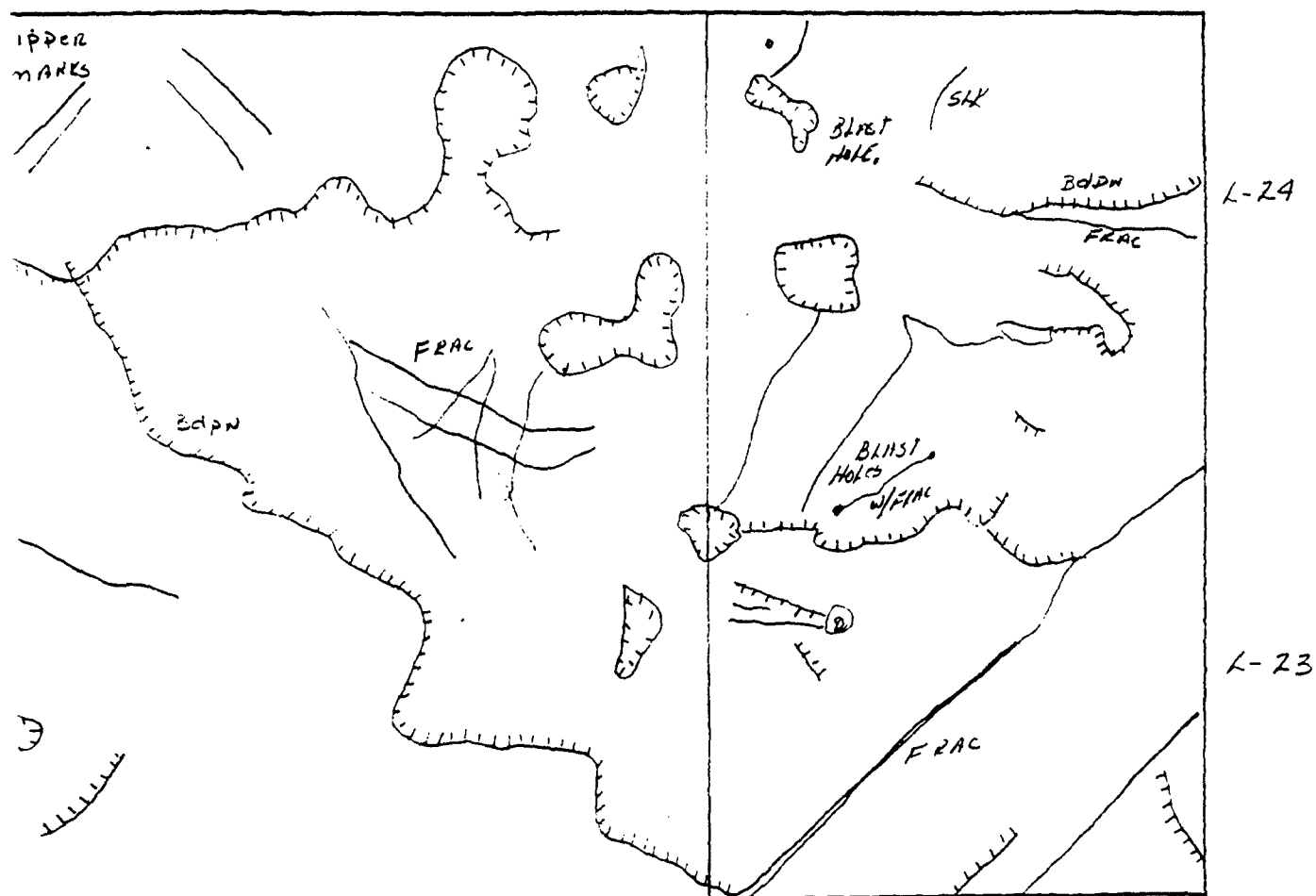
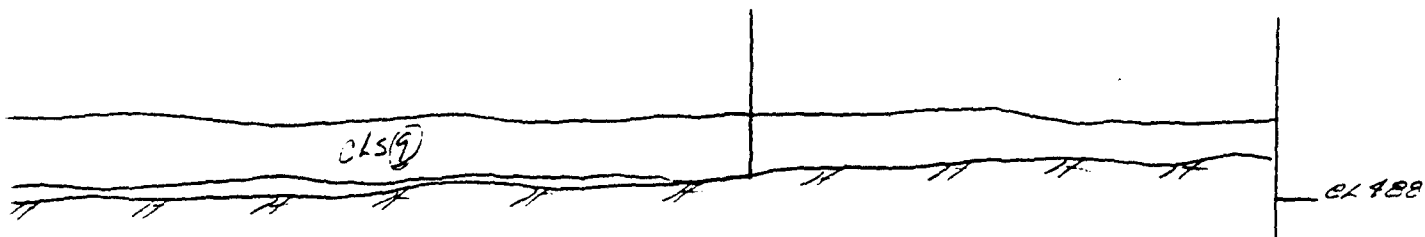
U.S. Army Corps of Engineers

Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Auxiliary Lock Sill



AUX LOCK Emergency G

①



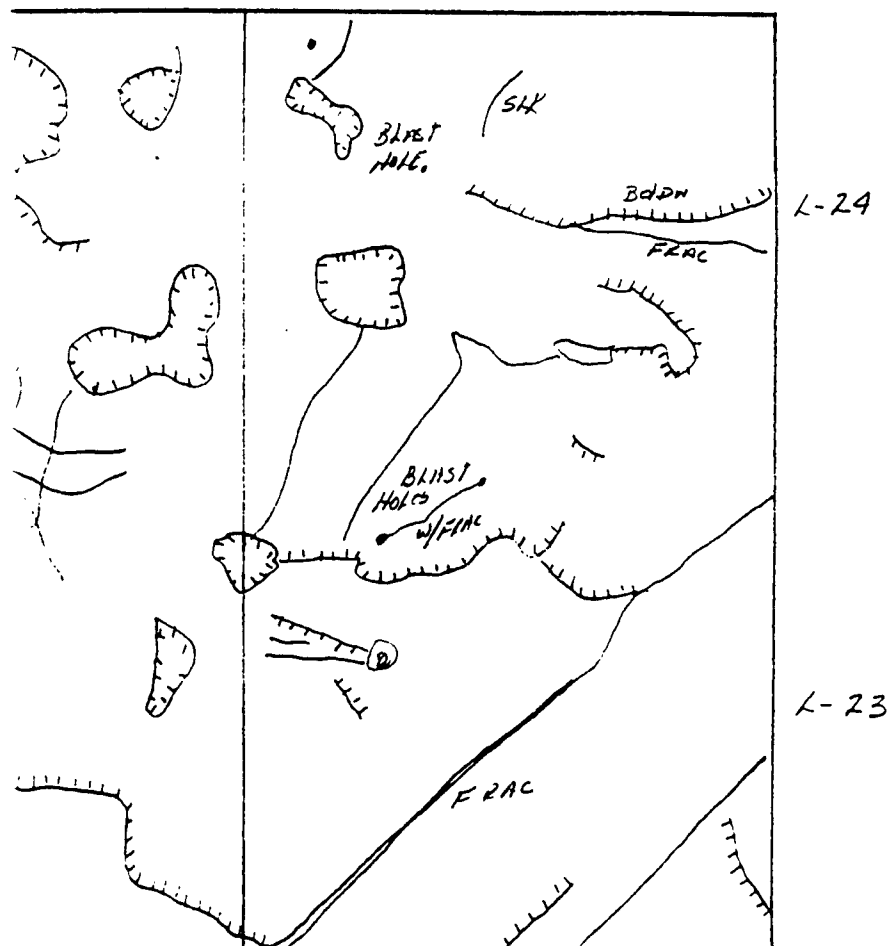
Emergency Gate SILL

(2)

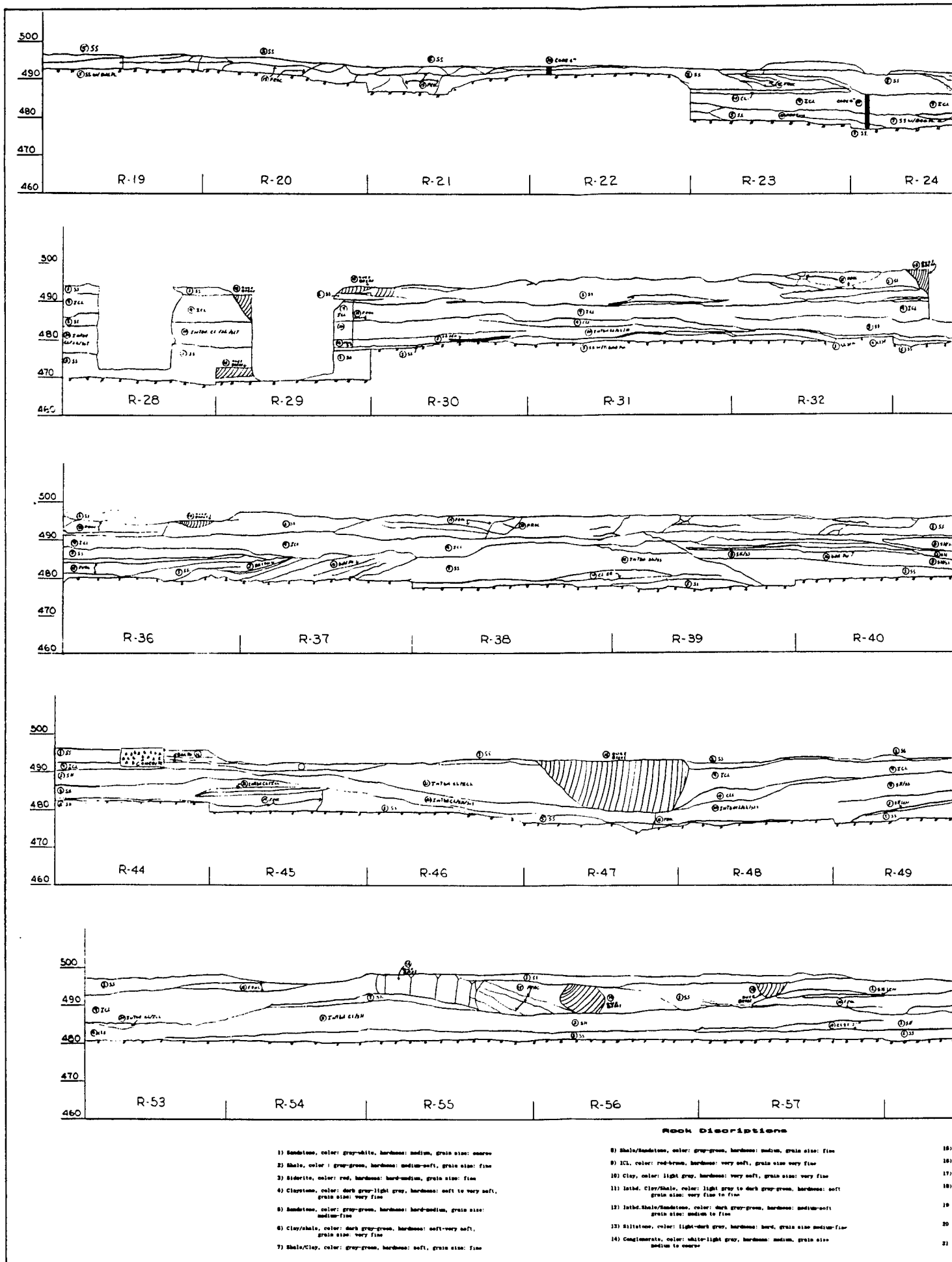
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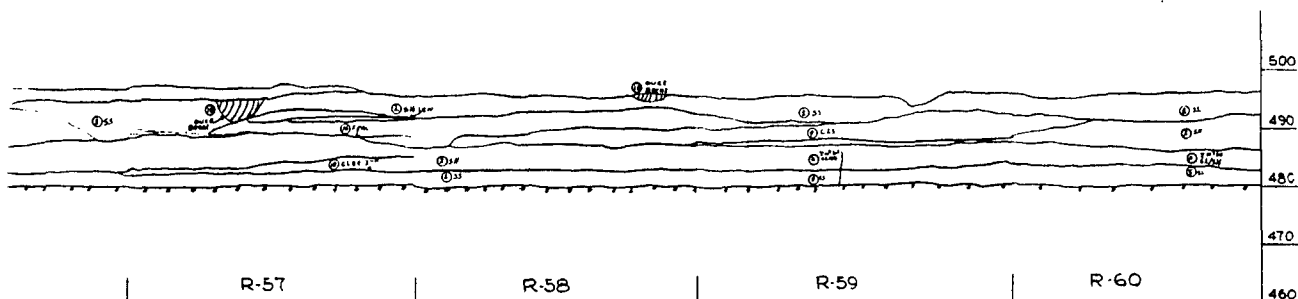
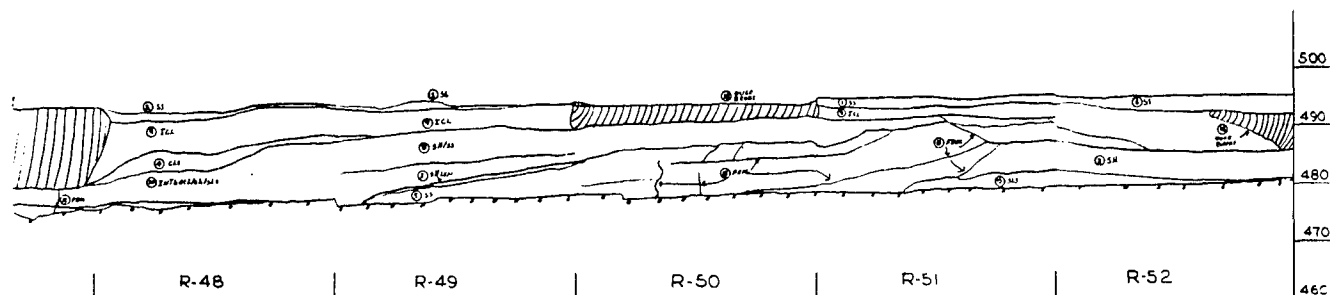
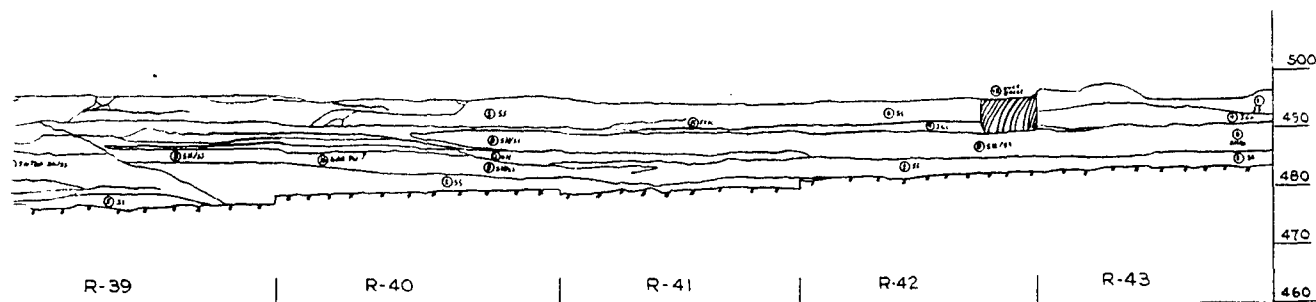
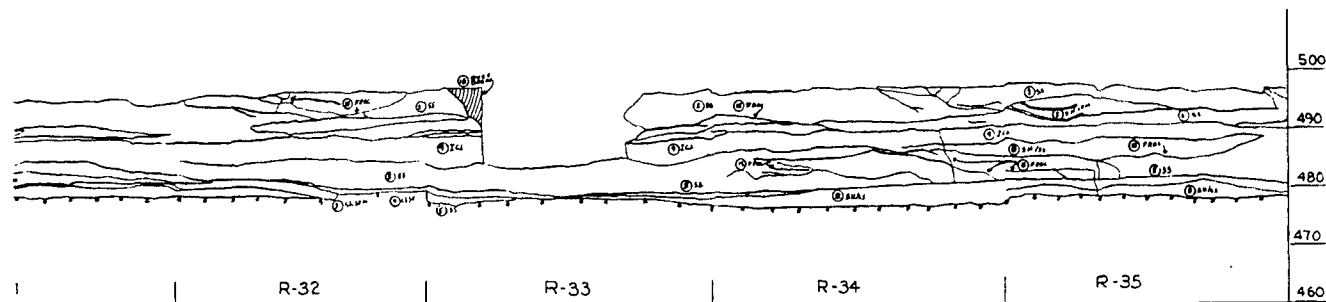
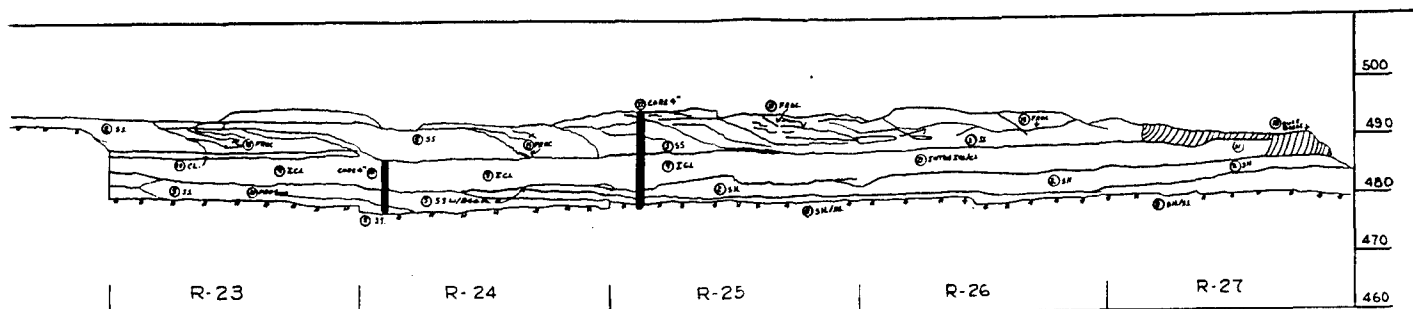
U.S. ARMY CO

Gallipolis  
Lock  
Foundation  
Auxiliary



Gallipolis Lock and Dam  
Lock in Canal  
Foundation Drawing  
Auxiliary Lock Sill





#### Rock Descriptions

Shale/sandstone, color: gray-green, hardness: medium, grain size: fine

CL, color: red-brown, hardness: very soft, grain size: very fine

Clay, color: light gray, hardness: very soft, grain size: very fine

lath. Clay/shale, color: light gray to dark gray-green, hardness: soft, grain size: very fine to fine

lath. Shale/sandstone, color: dark gray-green, hardness: medium-soft, grain size: medium to fine

Siltstone, color: light-dark gray, hardness: hard, grain size: medium-fine

Conglomerate, color: white-light gray, hardness: medium, grain size: medium to coarse

16) Fractures, including vertical and horizontal, width: 1/8 to 1/4 inch

16) bed. pl., bedding plane

17) broken zone, intensely fractured

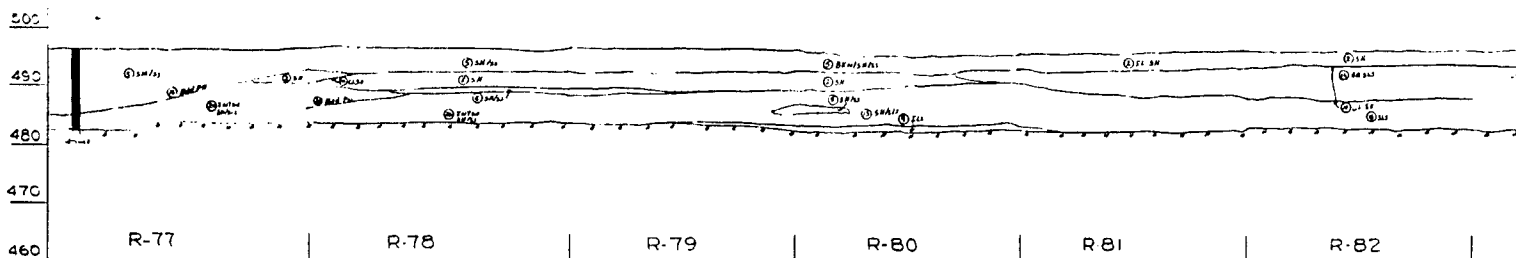
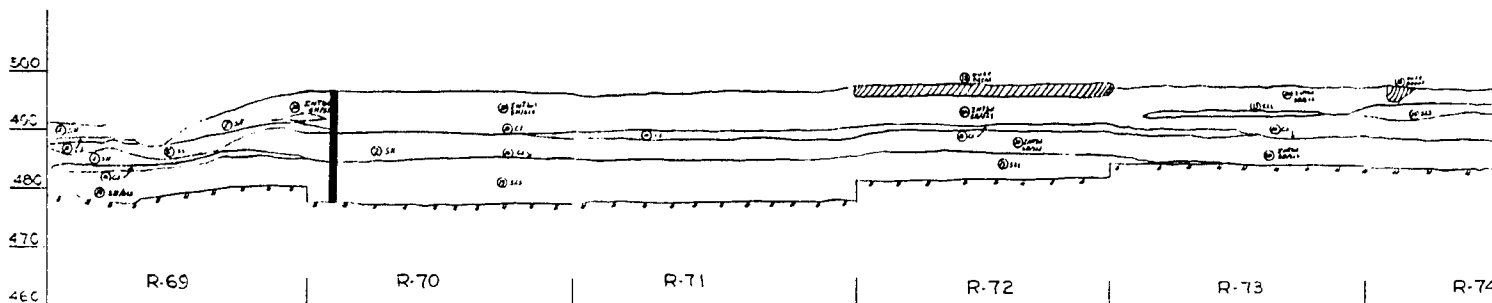
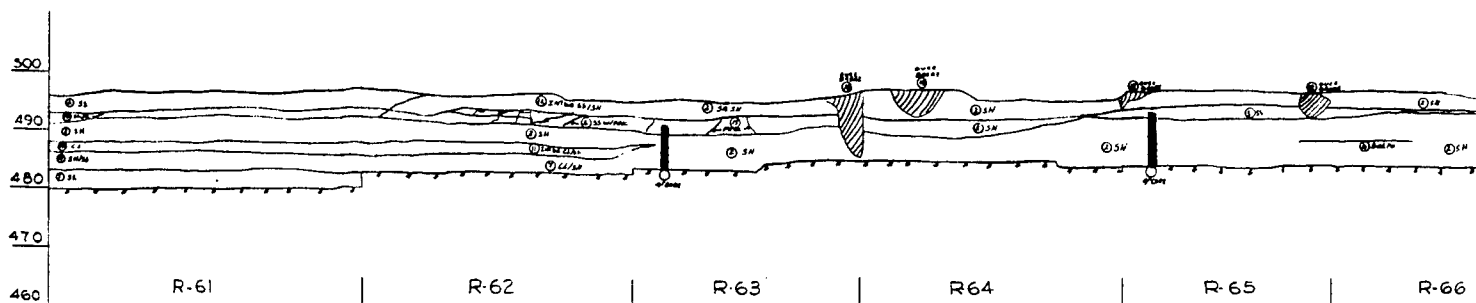
18) over break, piece of material lost during excavation after, 1-8 feet

19) shale/siltstone, color: gray-green, hardness: hard-medium, grain size: medium, bed. thin bed. pl.

20) lath. clay/shale/siltstone, color: light gray to dark gray-green, hardness: very soft to medium, grain size: very fine to medium

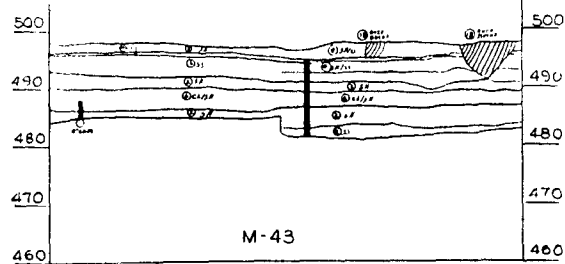
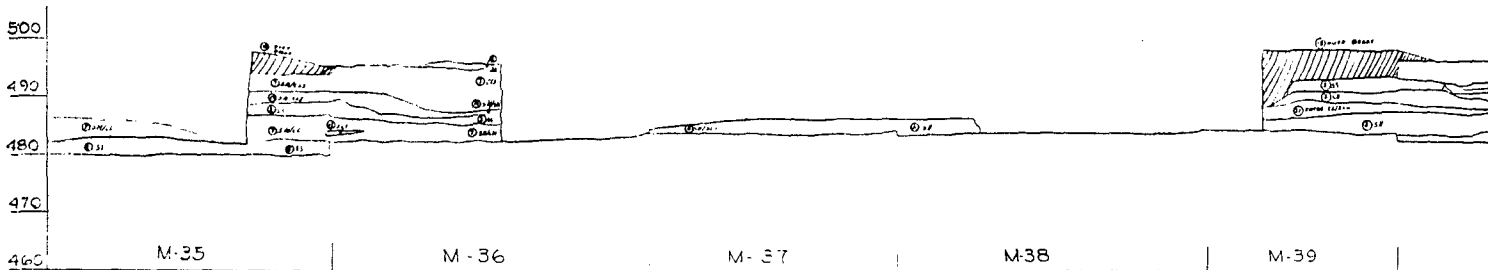
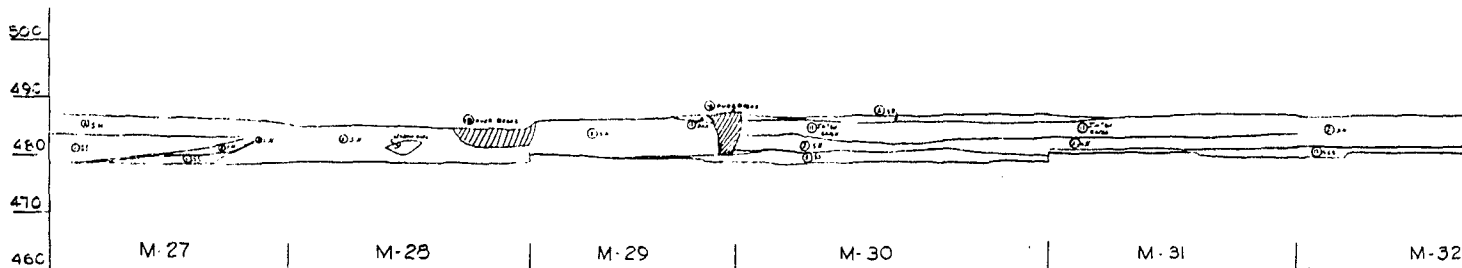
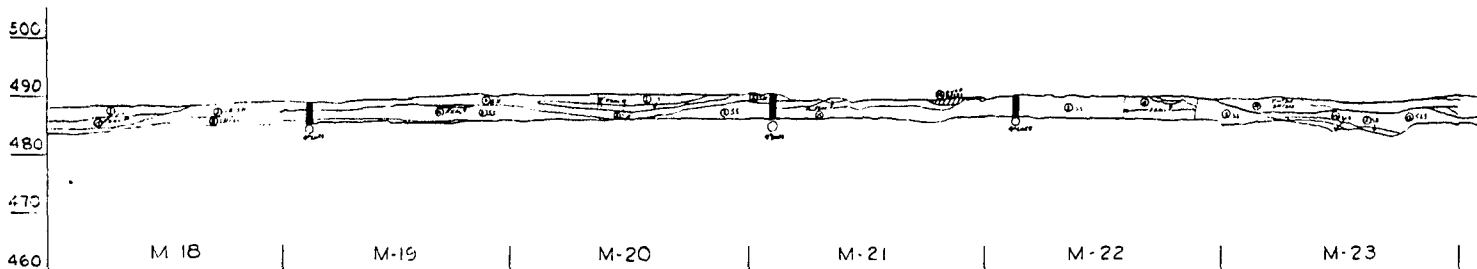
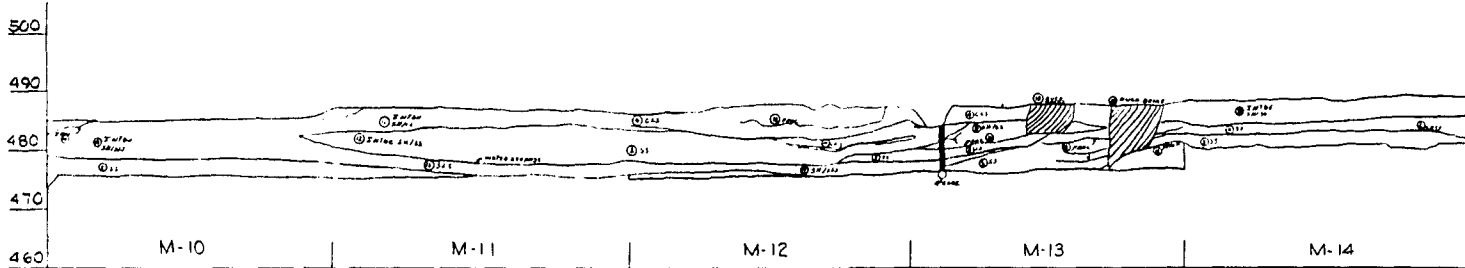
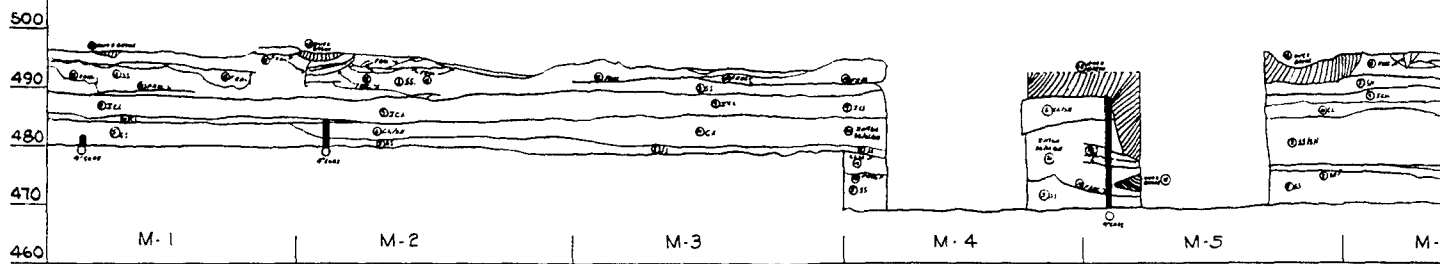
21) lath. clay/CL, color: gray, red-brown, hardness: very soft, grain size: very fine

U.S. Army Engineer District Burlington  
Office of Engineers  
Burlington N. H.  
**Ohio River**  
**Gallipolis Locks and Dam**  
**Locks in Canal**  
River Hill Cross Section









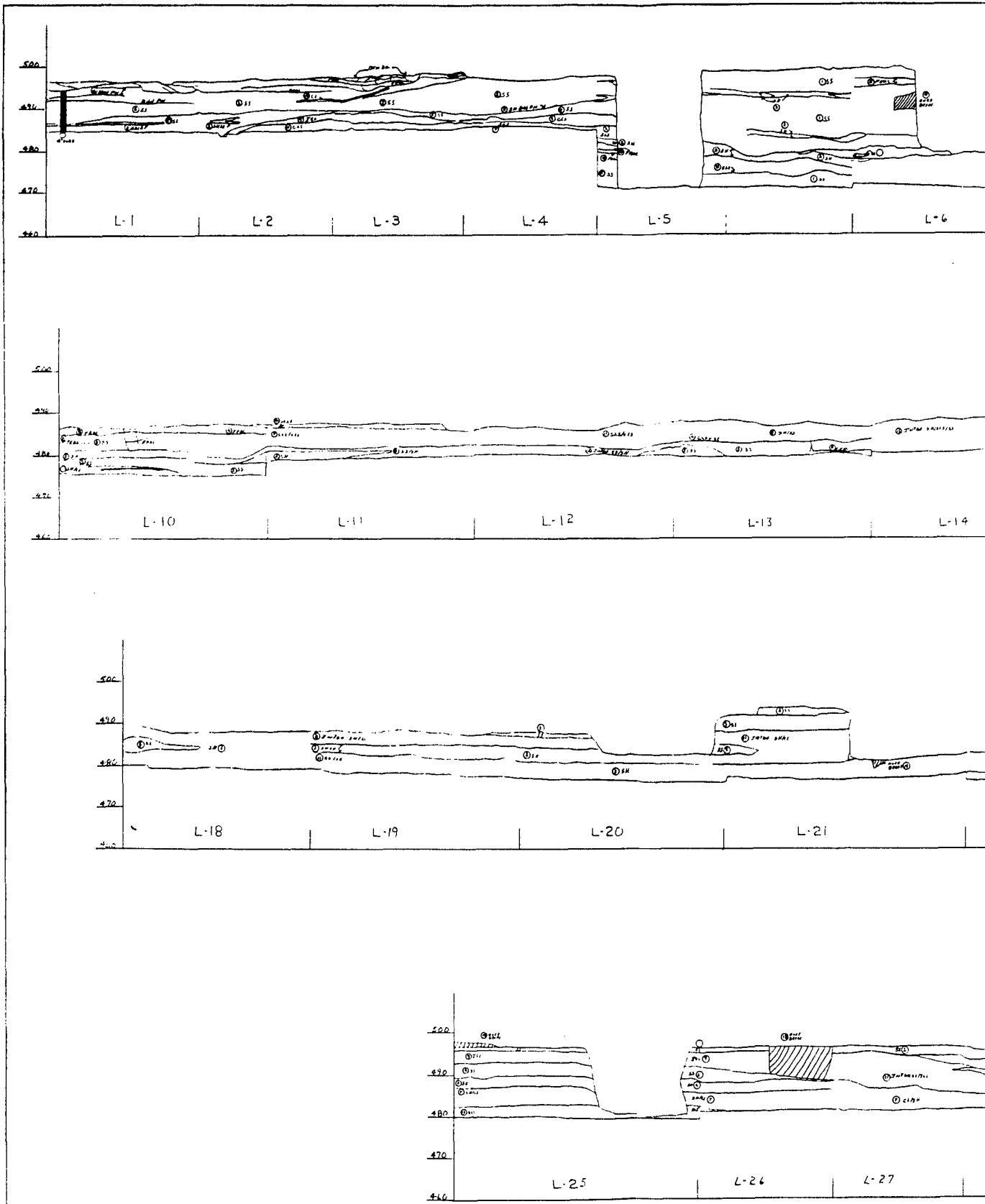
#### Rock Descriptions

- 1) Sandstone, color: gray-white, hardness: medium, grain size: coarse
- 2) Shale, color: gray-green, hardness: medium-soft, grain size: fine
- 3) Siderite, color: red, hardness: hard-medium, grain size: fine
- 4) Claystone, color: dark gray-light gray, hardness: soft to very soft, grain size: very fine
- 5) Sandstone, color: gray-green, hardness: hard-medium, grain size: medium-fine
- 6) Clay/shale, color: dark gray-green, hardness: soft-very soft, grain size: very fine
- 7) Shale/Clay, color: gray-green, hardness: soft, grain size: fine
- 8) Shale/Sandstone, color: gray-green, hardness: medium, grain size: fine

- 9) ICL, color: red-brown, hardness: very soft, grain size: very fine
- 10) Clay, color: light gray, hardness: very soft, grain size: very fine
- 11) Interbed. clay/shale, color: light gray to dark gray-green, hardness: soft, grain size: very fine to fine
- 12) Interbed. shale/sandstone, color: dark gray-green, hardness: medium-soft, grain size: medium to fine
- 13) Siltstone, color: light-dark gray, hardness: hard, grain size: medium-fine
- 14) Conglomerate, color: white-light gray, hardness: medium, grain size: medium to coarse
- 15) Fracture, includes vertical and horizontal, width: 1/8 to 1/5 inches

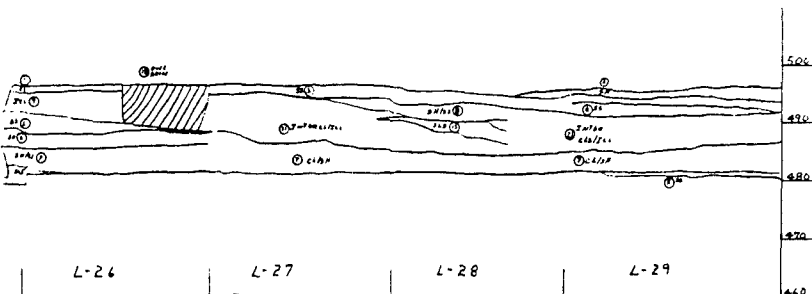
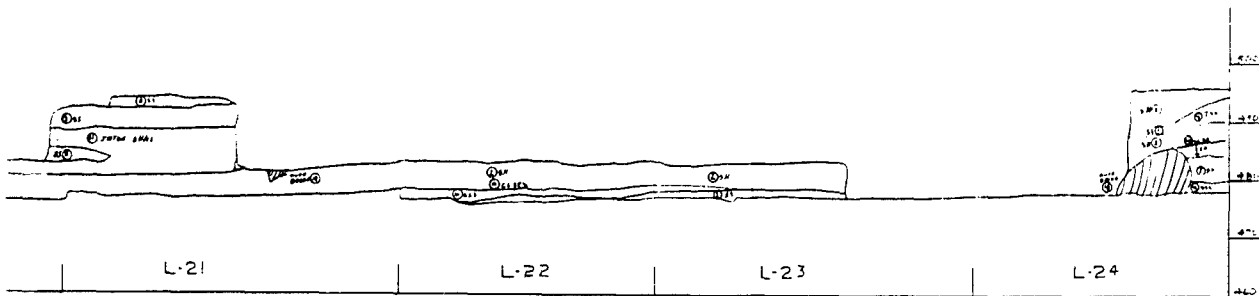
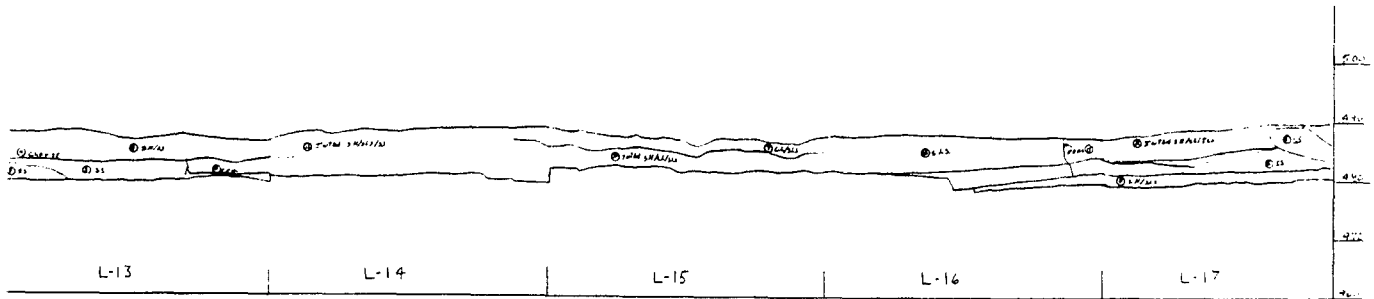
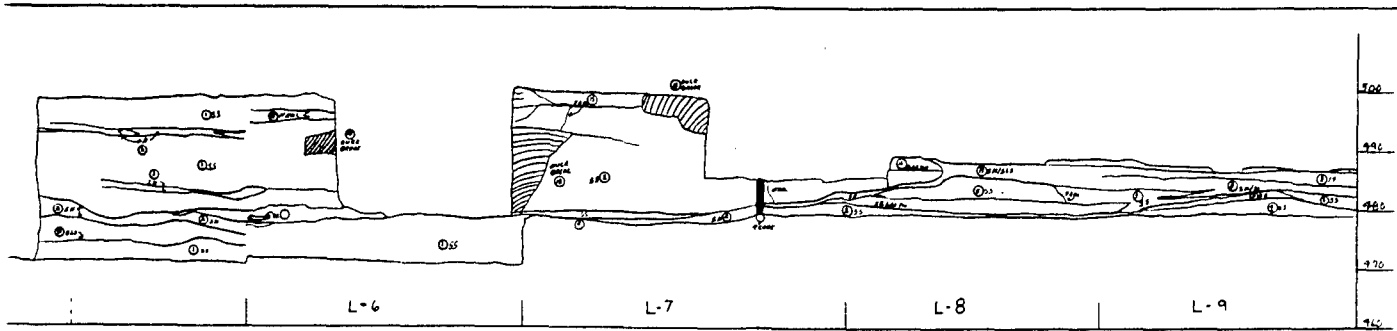
- 16) bed. pl., bedding
- 17) broken zone, late
- 18) over break, plane
- 19) shale/siltstone, medium
- 20) interbed. clay/shale, very soft
- 21) interbed. clay/ICL, grain size





Rock Descriptions

- |   |  |
|---|--|
| 1) Sandstone, color: gray-white, hardness: medium, grain size: coarse                         | 9) ICC, color: red-brown, hardness: very soft, grain size: very fine                                       |
| 2) Shale, color: gray-green, hardness: medium-soft, grain size: fine                          | 10) Clay, color: light gray, hardness: very soft, grain size: very fine                                    |
| 3) Siderite, color: red, hardness: hard-medium, grain size: fine                              | 11) Intbd. Clay/shale, color: light gray to dark gray-green, hardness: soft, grain size: very fine to fine |
| 4) Claystone, color: dark gray-light gray, hardness: soft to very soft, grain size: very fine | 12) Intbd. Shale/sandstone, color: dark gray-green, hardness: medium-soft, grain size: medium to fine      |
| 5) Sandstone, color: gray-green, hardness: hard-medium, grain size: medium-fine               | 13) Siltstone, color: light-dark gray, hardness: hard, grain size: medium-fine                             |
| 6) Clay/shale, color: dark gray-green, hardness: soft-very soft, grain size: very fine        | 14) Conglomerate, color: white-light gray, hardness: medium, grain size: medium to coarse                  |
| 7) Shale/clay, color: gray-green, hardness: soft, grain size: fine                            | 15) Fractures, includes vertical and horizontal, width: 1/8 to 1/3 inches                                  |
| 8) Shale/sandstone, color: gray-green, hardness: medium, grain size: fine                     | 16) Bed. Pl., bedding planes   |

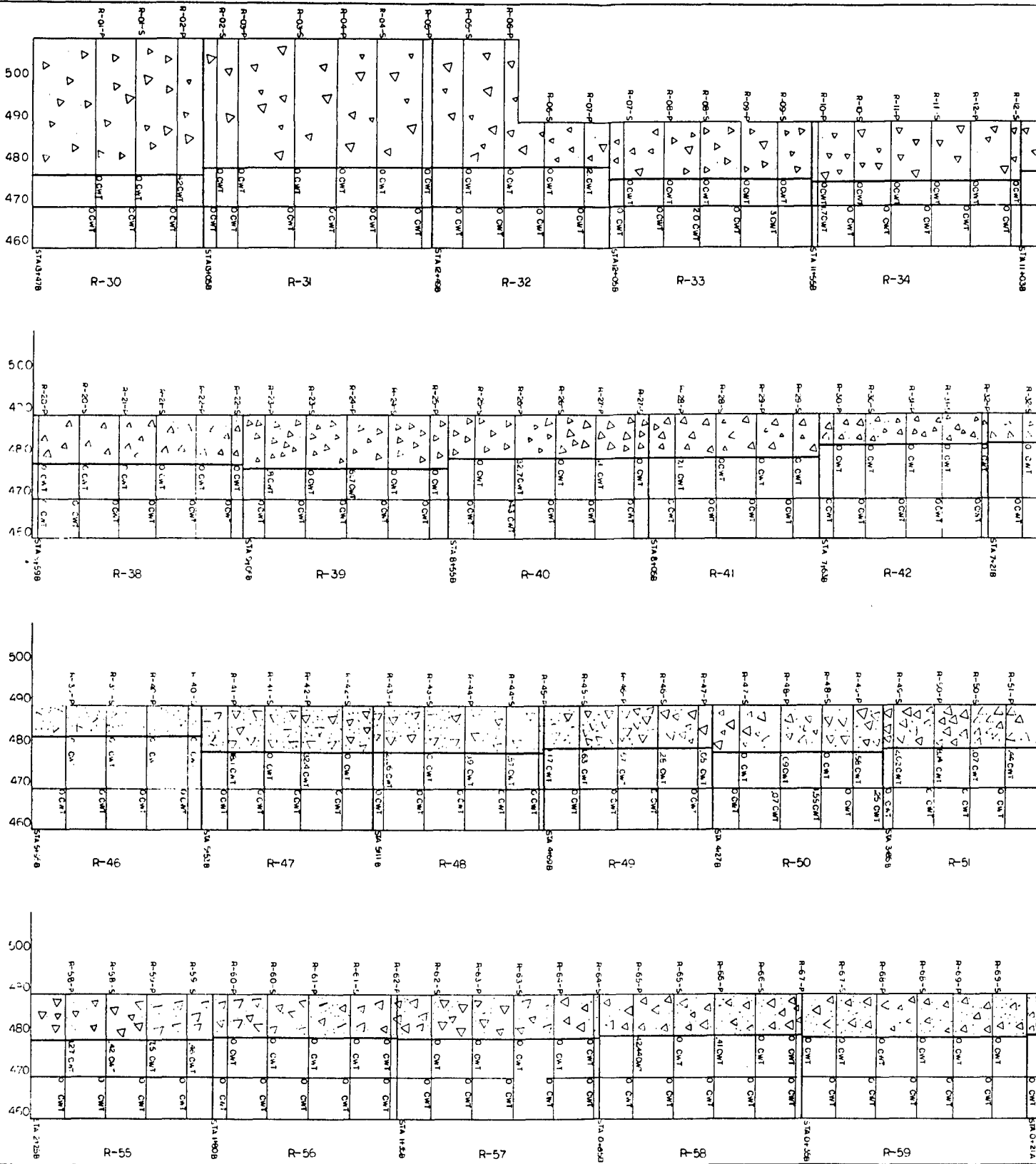


#### Rock Descriptions

color: red-brown, hardness: very soft, grain size: very fine  
 color: light gray, hardness: very soft, grain size: very fine  
 Clay/Shale, color: light gray to dark gray-green, hardness: soft  
 grain size: very fine to fine  
 Shale/Siltstone, color: dark gray-green, hardness: medium-soft  
 grain size: medium to fine  
 one, color: light-dark gray, hardness: hard, grain size: medium-fine  
 sarsite, color: white-light gray, hardness: medium, grain size  
 medium to coarse  
 res. includes vertical and horizontal, width: 1/8 to 1.5 inches  
 .. bedding plane

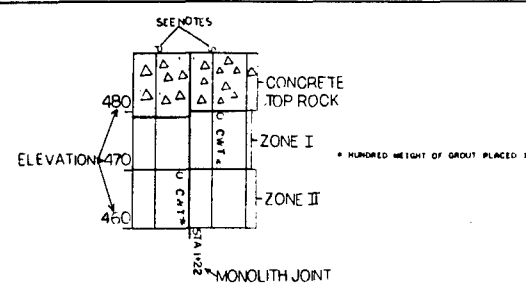
17) Broken zone, intensely fractured  
 18) Over break, piece of material lost during excavation after 1-9 feet  
 19) Shale/Siltstone, color: gray-green, hardness: hard-medium, grain size:  
 medium, has thin bed.pl.  
 20) Intbd. Clay/Shale/Siltstone, color: light gray to dark gray-green, hardness:  
 very soft to medium, grain size: very fine to medium  
 21) Intbd. Clay/ICL, color: gray, red-brown, hardness: very soft,  
 grain size: very fine

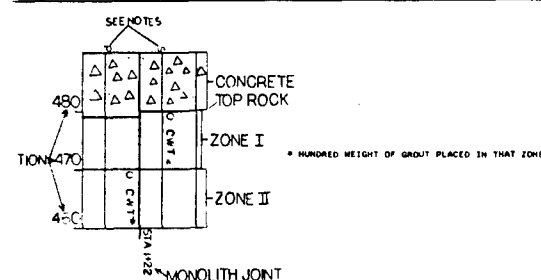
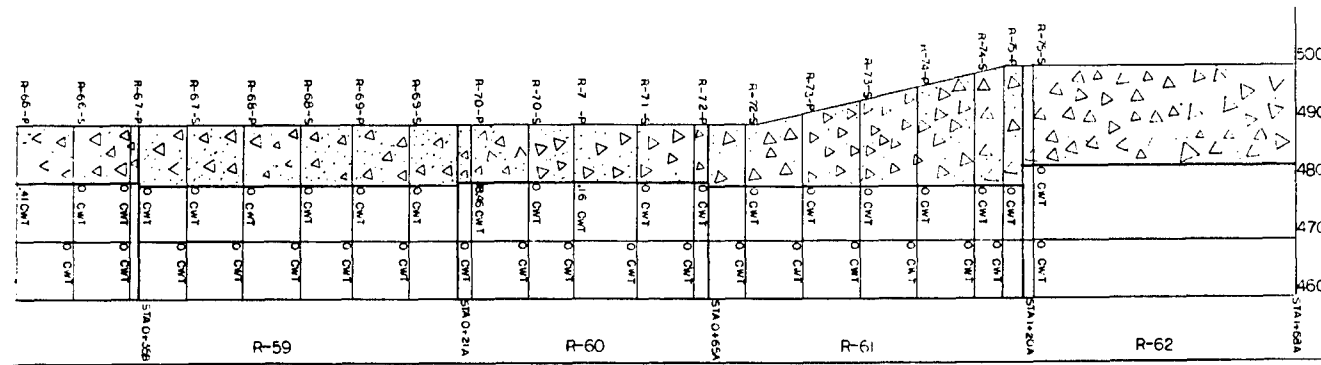
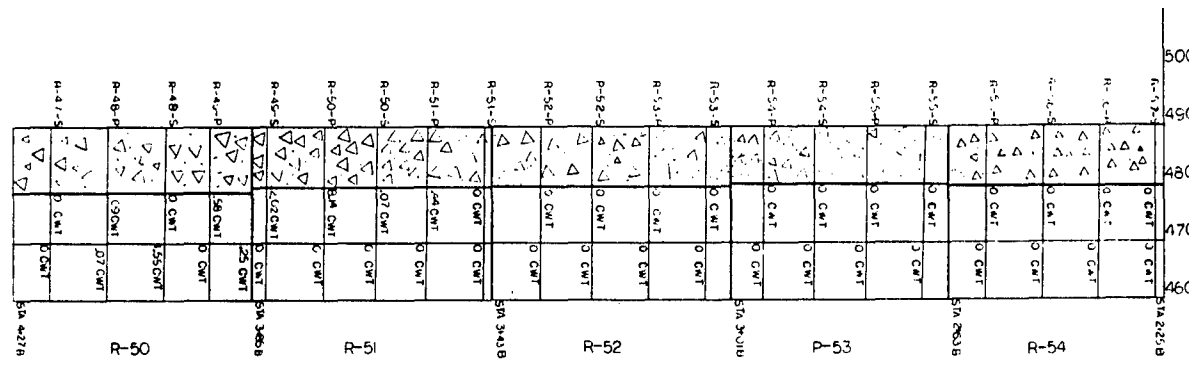
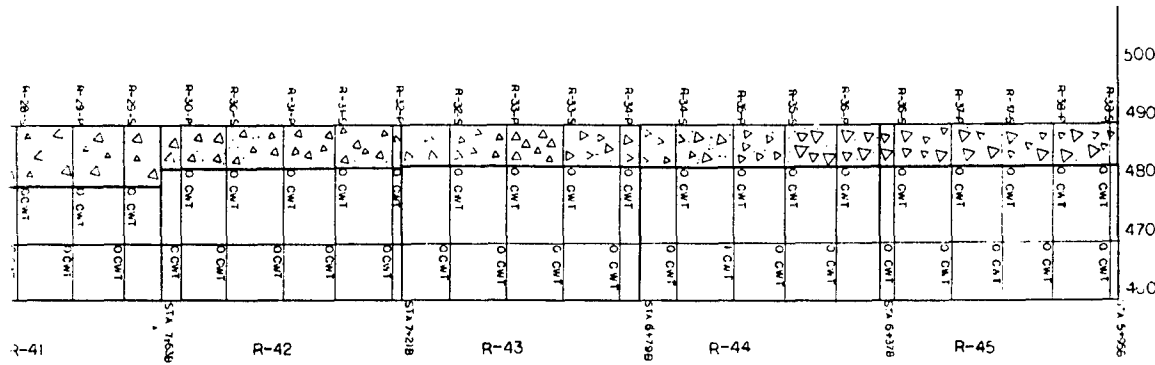
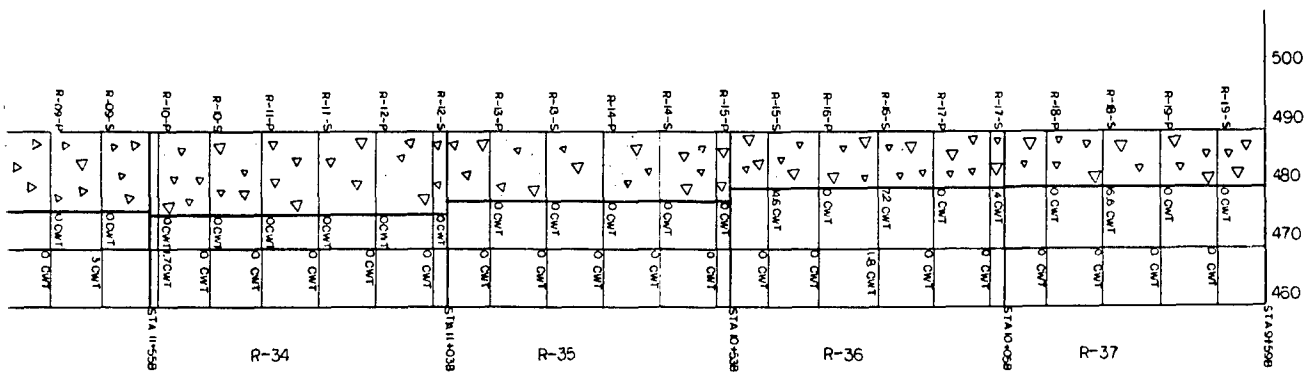
U.S. Army Engineer District Washington  
 Corps of Engineers  
 Washington D.C.  
 Ohio River  
 Gallipolis Locks and Dam  
 Locks in Canal  
 Lock Wall Cross Section



FLOW DIRECTION RIGHT TO LEFT

0 10 20  
 SCALE  
 1 INCH = 10 FEET

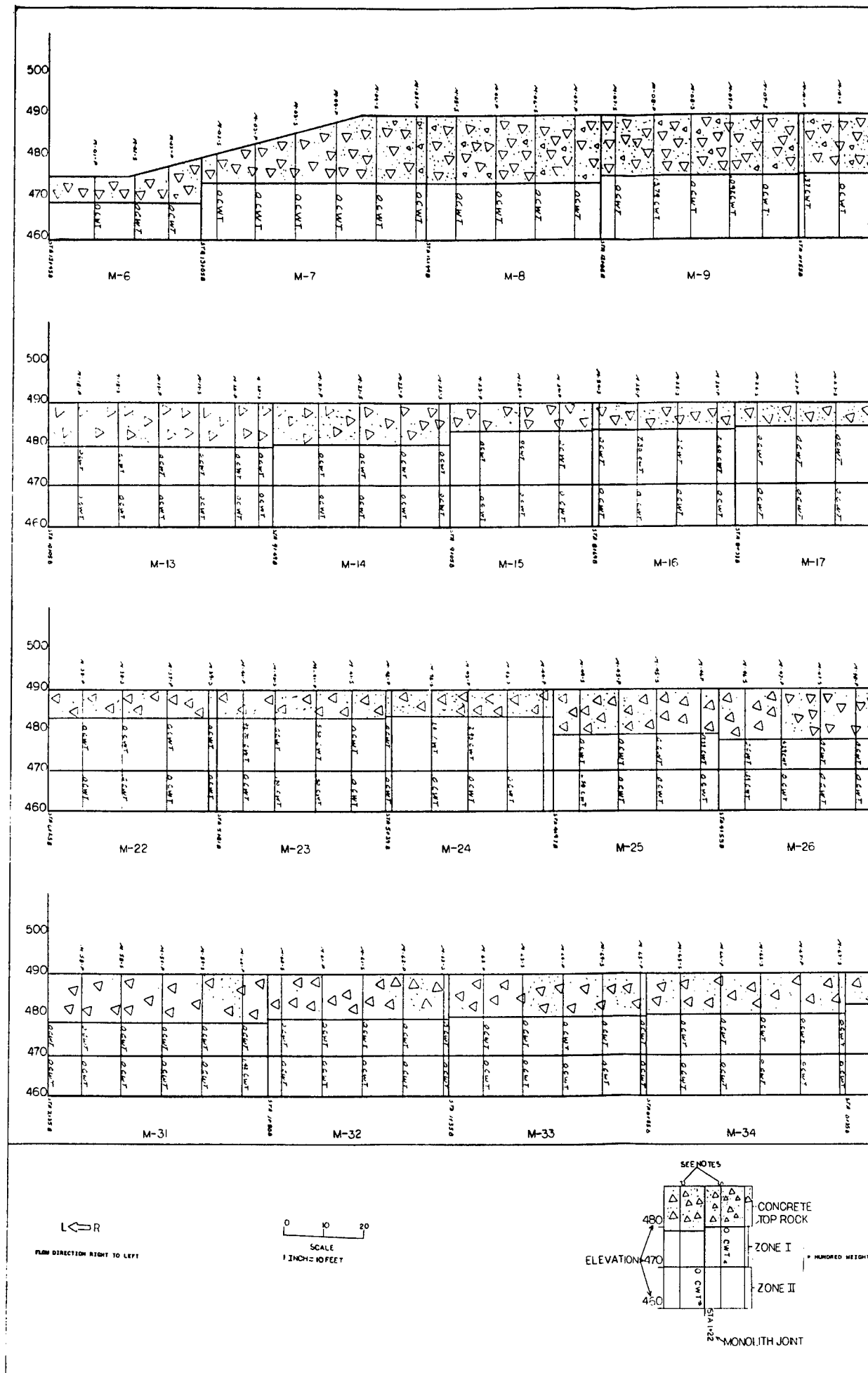


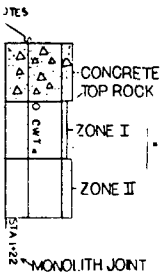
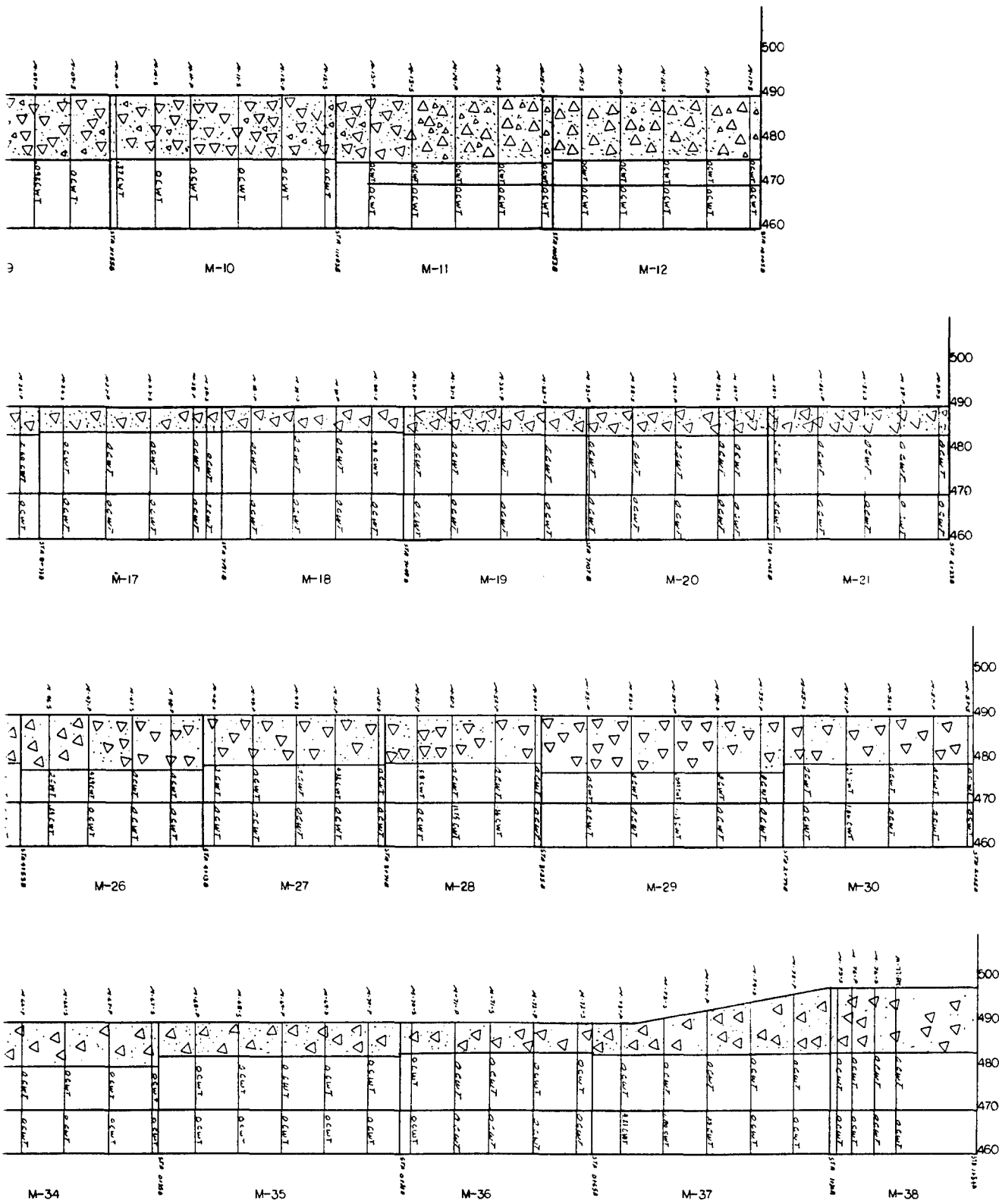


- GROUTING NOTES
1. ALL HOLE ARE PERFORMED IN THE CONCRETE
  2. MANDATORY PRIMARY AND SECONDARY DRILLING AND GROUTING.
  3. TERTIARY DRILLING AND GROUTING, WHEN DETERMINED TO BE NECESSARY.
  4. ZONE 1 GROUTING SHALL EXTEND DOWN TO ELEVATION 470. ZONE 2 GROUTING SHALL EXTEND DOWN TO ELEVATION 460
  5. ALL GROUTING INSIDE THE CULVERT HAS DONE FROM ELEVATION 460 ON THE CULVERT INVERT. WATER GATE BILLS WERE GROUTED FROM ELEVATION 460.
  6. R-22-P IS R1 RIVER WALL, 22: THE HOLE NUMBER, P: PRIMARY R-22-S IS R1 RIVER WALL, 22: THE HOLE NUMBER, S: SECONDARY

U.S. ARMY DISTRICT HUNTINGTON  
CORPS OF ENGINEERS  
HUNTINGTON W. VA.  
OHIO RIVER  
BALLPOLE LOCK AND DAM  
LOCKS IN CANAL  
RIVER WALL  
GROUT SECTION

2





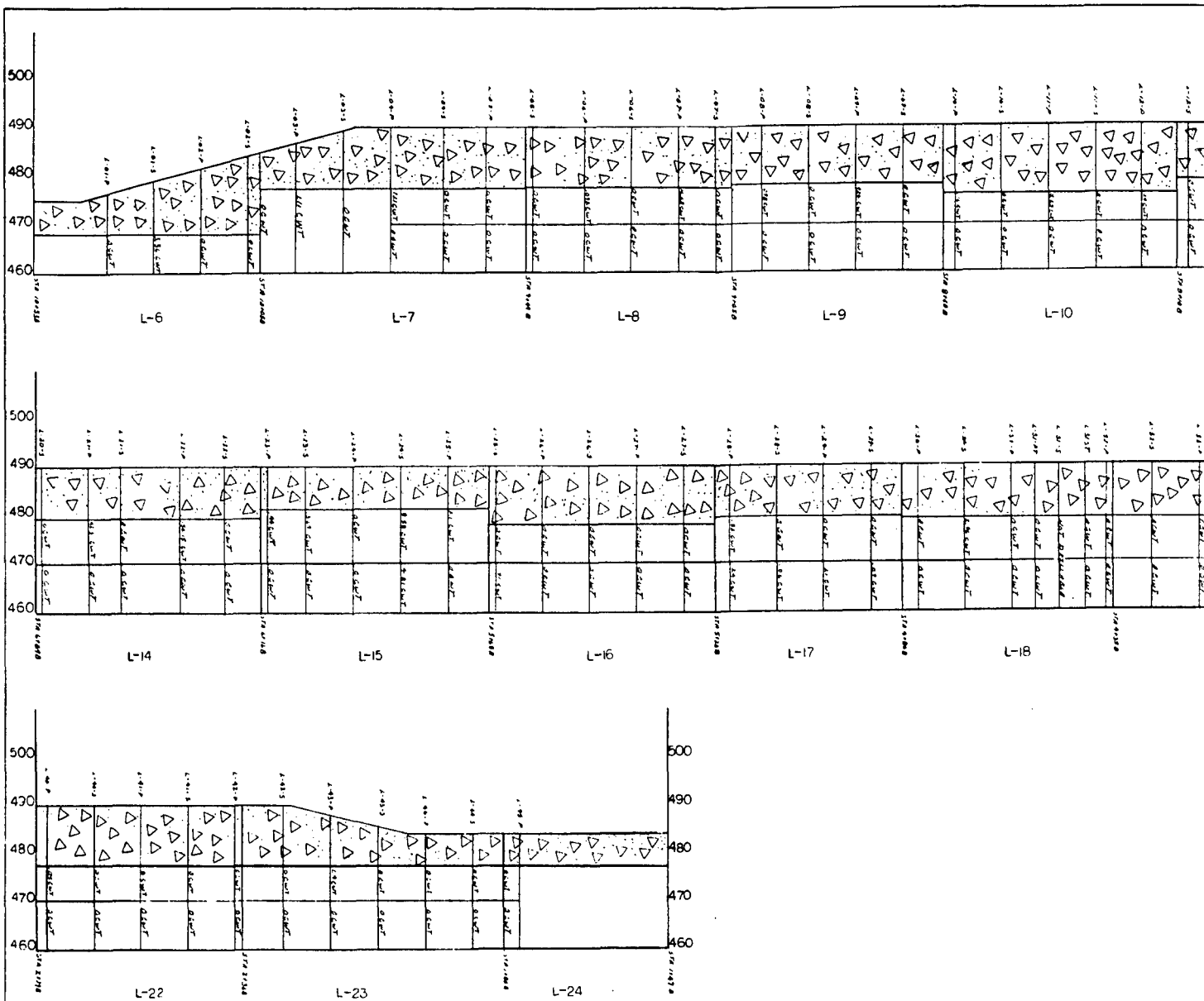
#### GROUTING NOTES

1. ALL HOLES ARE PREFORMED IN THE CONCRETE.
2. MANDATORY PRIMARY AND SECONDARY DRILLING AND GROUTING.
3. TERTIARY DRILLING AND GROUTING, WHEN DETERMINED TO BE NECESSARY.
4. ZONE 1 GROUTING SHALL EXTEND DOWN TO ELEVATION 470. ZONE 2 GROUTING SHALL EXTEND DOWN TO ELEVATION 460.
5. ALL GROUTING INSIDE THE CULVERT WAS DONE FROM ELEVATION 490 OR THE CULVERT INVERT. MITER GATE BILLS WERE GROUTED FROM ELEVATION 492.
6. R-22-P IS R-RIVER WALL. 22+ THE HOLE NUMBER. P- PRIMARY. R-22-S IS R-RIVER WALL. 22+ THE HOLE NUMBER. S- SECONDARY.

U.S. ARMY DISTRICT HUNTINGTON  
CORPS OF ENGINEERS  
HUNTINGTON W. VA.

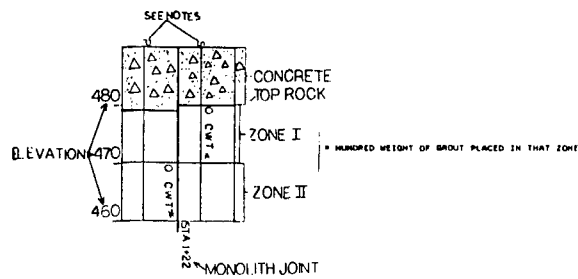
ORIO RIVER  
GALLIPOLIS LOCK AND DAM  
LOCK IS GRAB  
MIDDLE WALL  
GROUT SECTION

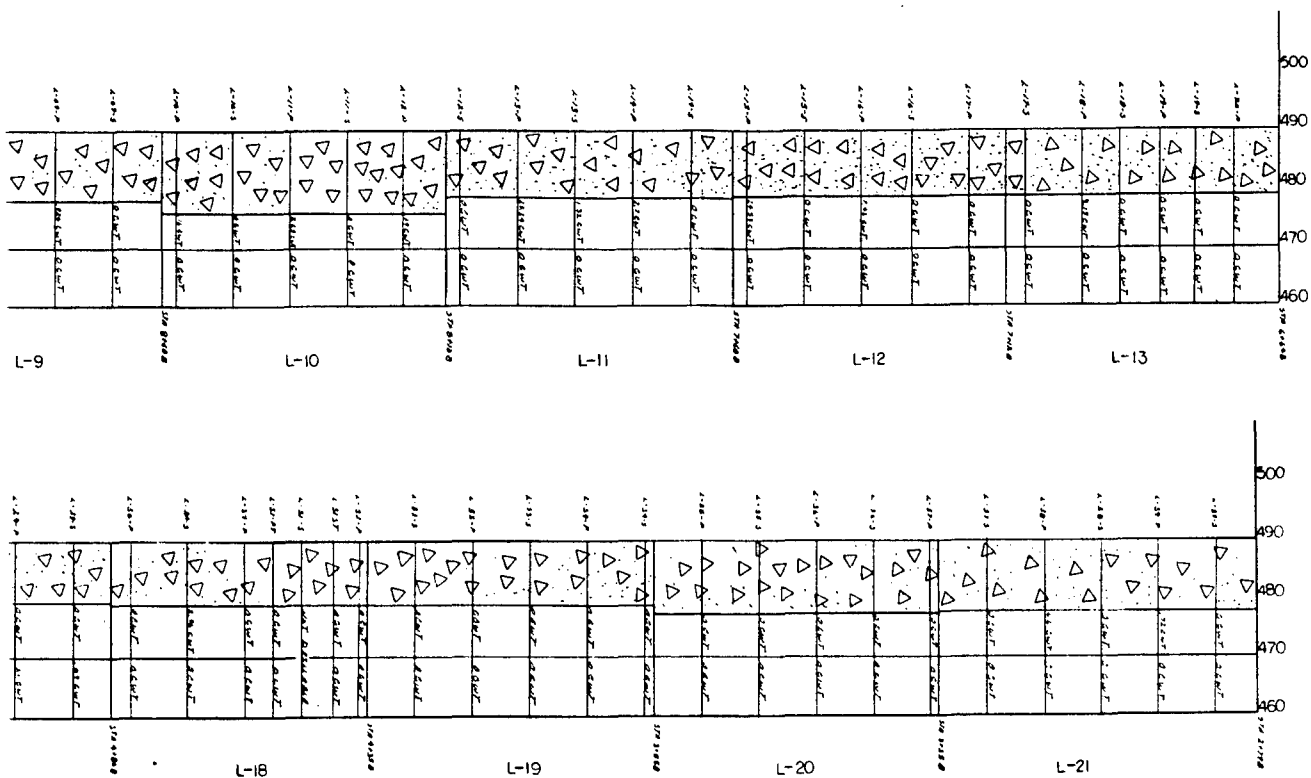




L ← R  
PLAN DIRECTION RIGHT TO LEFT

0 10 20  
SCALE  
1 INCH = 10 FEET





CONCRETE  
OR ROCK

ONE I

\* NUMBER HEIGHT OF GROUT PLACED IN THAT ZONE

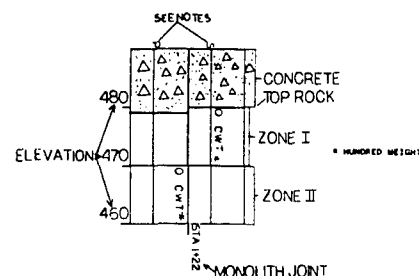
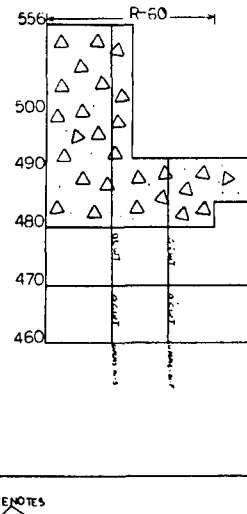
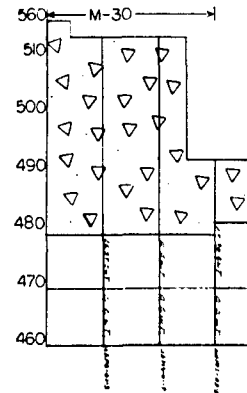
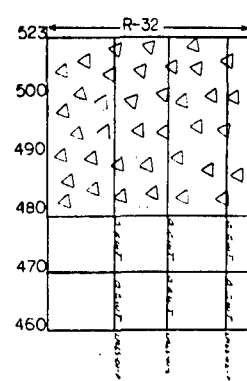
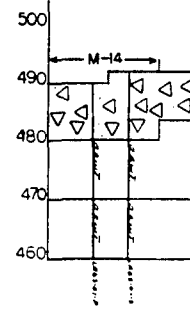
ONE II

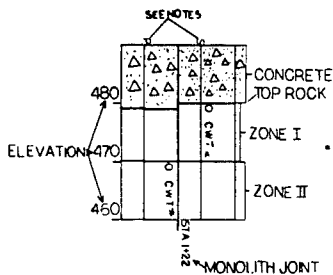
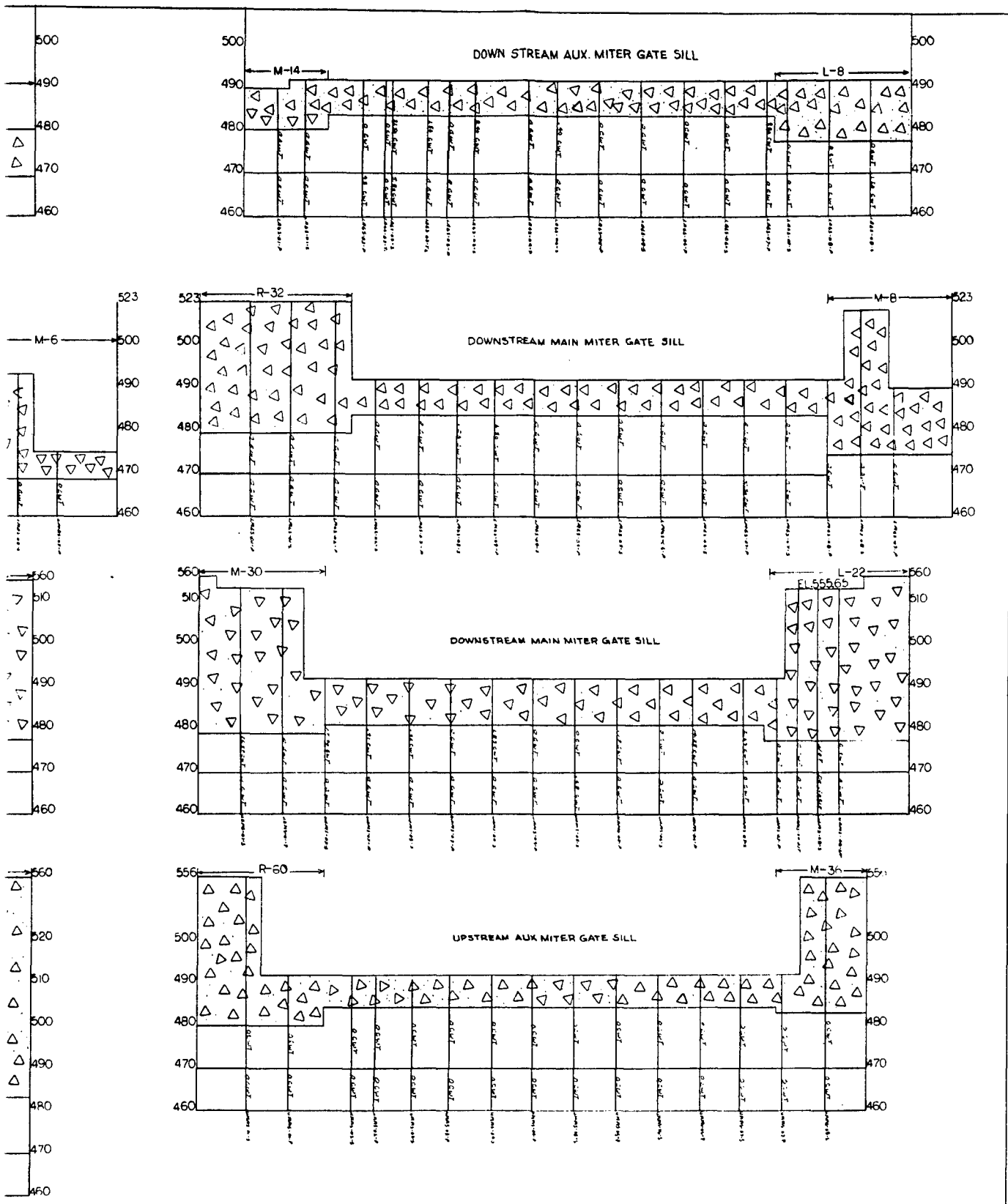
TH JOINT

#### GROUTING NOTES

1. ALL HOLES ARE PERFORMED IN THE CONCRETE.
2. MANDATORY PRIMARY AND SECONDARY DRILLING AND GROUTING.
3. TERTIARY DRILLING AND GROUTING, WHEN DETERMINED TO BE NECESSARY.
4. ZONE 1 GROUTING SHALL EXTEND DOWN TO ELEVATION 470. ZONE 2 GROUTING SHALL EXTEND DOWN TO ELEVATION 460.
5. ALL GROUTING INSIDE THE CULVERT WAS DONE FROM ELEVATION 490 OR THE CULVERT INVERT. RIVER GATE BILLS WERE GROUTED FROM ELEVATION 492.
6. R-22-P IS RIVER WALL, 22\* THE HOLE NUMBER, P\* PRIMARY. R-22-S IS RIVER WALL, 22\* THE HOLE NUMBER, S\* SECONDARY.

U.S. ARMY DISTRICT HUNTINGTON CORPS OF ENGINEERS HUNTINGTON W. VA.
OHIO RIVER GALLIPOLI LOCK AND DAM LOCKED IN CHINA LAND WALL GROUT SECTION





#### GROUTING NOTES

- 1). ALL HOLE ARE PREFORMED IN THE CONCRETE.
- 2). PRIMARY PRIMARY AND SECONDARY DRILLING AND GROUTING.
- 3). TERTIARY DRILLING AND GROUTING, WHEN DETERMINED TO BE NECESSARY.
- 4). ZONE 1 GROUTING SHALL EXTEND DOWN TO ELEVATION 470. ZONE 2 GROUTING SHALL EXTEND DOWN TO ELEVATION 460.
- 5). ALL GROUTING INSIDE THE CULVERT WAS DONE FROM ELEVATION 490 OR THE CULVERT INVERT. MITER GATE SILLS WERE GROUTED FROM ELEVATION 492.
- 6). R-22-P IS R4 RIVER WALL, 224 THE HOLE NUMBER, P4 PRIMARY R-22-S IS R4 RIVER WALL, 224 THE HOLE NUMBER, S4 SECONDARY

U.S. ARMY DISTRICT HUNTINGTON  
CORPS OF ENGINEERS  
DESIGNATION R. 72.

OHIO RIVER  
GALLIPOLIS LOCK AND DAM  
LOCK 18 CANAL  
SILLS  
GROUT SECTION